

**TECHNICAL MEMORANDUM
DEVELOPMENT OF SITE-SPECIFIC SURFACE WATER RSLs FOR FLOOD WATER EXPOSURE
LOWER DARBY CREEK AREA**

OCTOBER 2020

INTRODUCTION

At the Lower Darby Creek Area site, recreational users are potentially exposed to the surface water from Darby Creek, Cobbs Creek, and Tinicum Marsh. Surface water in these areas is tidally influenced. The recent weather event, Tropical Storm Isaias, inundated the Eastwick Recreational Park (a.k.a., City Park) east of Clearview Landfill and many homes in the Eastwick neighborhood; therefore, receptors may have been acutely exposed to contaminants present in the flood water. This technical memorandum presents site-specific, receptor-specific regional screening levels (RSLs) developed for surface water stemming from flooding conditions and discusses the risk evaluation of surface water.

DEVELOPMENT OF FLOOD WATER RSLs

Local residents may have been exposed to flood waters as a result of Tropical Storm Isaias. The exposure to flood water is assumed to have been brief, especially since flood waters receded within a short period of time.

The local resident's exposure to flood water was limited during flooding; therefore, the specific exposure was evaluated in a manner similar to a recreational user's exposure to surface water. In developing RSLs for flood water, both child and adult receptors were evaluated, assuming these receptors are potentially exposed to surface water contaminants through incidental ingestion and dermal contact. Therefore, when using EPA's RSL Calculator, the selected receptor is the Recreator, the selected medium is surface water, and site-specific exposure assumptions are used.

For a child and adult resident acutely exposed to flood water, exposures were assumed to occur for a 4-hour event duration per day for 7 days. For the adult, it was assumed that the skin surface area exposed to surface water would include feet, legs, hands and arms (11,440 cm² based on values from Table 7-2 of EPA's Exposure Factors Handbook, 2011). Generally, it is assumed that the adult is walking through waist-deep water. For the child, skin surface area exposed to surface water would include feet, legs, hands, arms and trunk (7,000 cm² based on values from Table 7-2 of the Exposure Factors Handbook, 2011). The residents were assumed to ingest 0.01 L/hr of surface water, which is one-fifth the amount that is estimated to be ingested while swimming. The child is assumed to be 4 years old, a likely minimum age to walk with an adult through flood waters. As a default per the Exposure Factors Handbook (EPA 2011), the child's body weight is 18.6 kg, while the adult's body weight is 80 kg. It is conservatively estimated that the exposure duration is 7 days; however, the RSL calculator precludes use of this low value. Therefore, an

exposure duration of 0.5 years was used to derive the RSLs. The exposure assumptions being used for surface water RSL development are summarized in Table 1.

RSL CALCULATIONS

EPA's RSL Calculator was used to derive the site-specific, receptor-specific RSLs. The calculator was modified to use the exposure assumptions identified in Table 1. The calculations for the adult and child residents exposed to flood water are in Attachments 1 and 2, respectively. These attachments are the output of spreadsheets for RSL calculations. All toxicity factors and chemical properties are taken directly from the RSL Calculator and are based on subchronic exposure. The attachments include the equations used for calculating the carcinogenic and noncarcinogenic RSLs in combination with the relevant intake equations for the ingestion and dermal pathways. The exposure assumptions are also defined. The RSLs correspond to a cancer risk level of 1×10^{-6} for carcinogenic effects and a hazard quotient of 0.1 for noncarcinogenic effects.

RISKS ASSOCIATED WITH EXPOSURE TO FLOOD WATER

Risks were calculated using a ratio approach on the basis that risk is directly proportional to concentration. For carcinogens, the RSLs correspond to a cancer risk of 1×10^{-6} ; therefore, risk for each chemical is defined as:

$$\text{CANCER RISK}_i = C * 10^{-6} / \text{RSL}_c$$

where:

- CANCER RISK_i = Cancer risk associated with defined concentration of contaminant i
- C = Measured concentration of contaminant i
- RSL_c = Site-specific, receptor-specific RSL for carcinogenic toxicity corresponding to 10^{-6} risk

For noncarcinogens, the RSLs correspond to a hazard quotient of 0.1; therefore, hazard quotient for each chemical is defined as:

$$\text{HQ}_i = C * 0.1 / \text{RSL}_{nc}$$

where:

- HQ = Hazard Quotient associated with defined concentration of contaminant i
- C = Measured concentration of contaminant i
- RSL_{nc} = Site-specific, receptor-specific RSL for noncarcinogenic toxicity corresponding to a hazard quotient of 0.1

Tables 2 and 3 present the risk calculations for the adult and child resident, respectively, for acute exposures to flood water. In summary, the risks are:

FLOOD WATER RISK SUMMARY

Receptor	Cancer Risk	Hazard Quotient
Adult	6×10^{-9}	3×10^{-3}
Child	2×10^{-8}	7×10^{-3}

The cancer risks are less than EPA's target risk range of 10^{-4} to 10^{-6} and the noncarcinogenic risks are less than the target hazard index of 1.0. Moreover, the risks are likely an overestimate of the actual risks. The time that receptors are assumed to be in flood water (4 hours per day for 7 days) is likely an overestimate. Maximum detected concentrations were used to calculate the risks. Additionally, the exposure duration of 7 days falls within acute exposure guidelines, yet subchronic toxicity factors were used to calculate risks because acute toxicity factors are unavailable. Acute toxicity factors, if available, result in higher receptor-specific RSLs (lower risks) because a receptor under short-term exposures can tolerate a higher concentration before experiencing an adverse health effect in contrast to long-term repeated exposures to lower concentrations.

Additionally, lead was detected in the flood water at a concentration of 32 µg/L. The Drinking Water Action Level for lead is 15 µg/L. While the maximum detected concentration in flood water exceeds the Action Level for drinking water, the flood water is not considered a drinking water source. Assuming a child drinks tap water with lead at an ingestion rate of 0.78 L/day, the standard default exposure assumption for tap water ingestion by a child, the intake of lead at 15 µg/L would be 11.7 µg/day. A child drinking flood water at an ingestion rate of 0.01 L/hr for 4 hours with a concentration of 32 µg/L results in a lead intake of 1.3 µg/day, which is approximately 9 times lower than what is allowable. This short-term exposure to lead is not expected to cause significant adverse health effects, especially when considering the overly conservative assumptions associated with exposure to the flood water. No toxicity factors are available for lead; therefore, risk cannot be calculated for lead as for the other contaminants.

TABLES

TABLE 1
EXPOSURE ASSUMPTIONS - FLOOD WATER
LOWER DARBY CREEK AREA

Parameter Code	Exposure Parameter	Recreational User	
		Child	Adult
Incidental Ingestion of Surface Water			
IR	Ingestion Rate (L/hour)	0.01 ⁽¹⁾	0.01 ⁽¹⁾
EF	Exposure Frequency (days/year)	7 ⁽²⁾	7 ⁽²⁾
ED	Exposure Duration (years)	0.5 ⁽³⁾	0.5 ⁽³⁾
ET	Exposure Time (hours/day)	4 ⁽⁴⁾	4 ⁽⁴⁾
BW	Body Weight (kg)	18.6 ⁽⁵⁾	80 ⁽⁶⁾
Dermal Contact with Surface Water			
SA	Skin Surface Available for Contact (cm ²)	7,000 ⁽⁷⁾	11,440 ⁽⁸⁾
t _{event}	Exposure Time (hours/day)	4 ⁽⁶⁾	4 ⁽⁶⁾
EV	Event Frequency (events/day)	1	1
EF	Exposure Frequency (days/year)	7 ⁽²⁾	7 ⁽²⁾
ED	Exposure Duration (years)	0.5 ⁽³⁾	0.5 ⁽³⁾
BW	Body Weight (kg)	18.6 ⁽⁵⁾	80 ⁽⁶⁾

1 - Due to surface water being flood water, it was assumed a resident would incidentally ingest 0.01 L/hour (1/5 of the amount ingested while swimming).

2 - Professional judgment based on daily exposure to flood waters for one week.

3 - Professional judgment based on exposure to flood water; cannot use a value less than 0.5 years.

4 - Professional judgment.

5 - EPA, 2011: 2011 Exposure Factor Handbook.

6 - EPA, 2014: Human Health Evaluation Manual, Supplement Guidance, Update of Standard Default Exposure Factors. OSWER 9200.1-120.

7 - Assumes feet, legs, hands, and arms (EPA, 2011).

8 - Assumes feet, legs, hands, arms, and trunk (EPA, 2011).

**TABLE 2
FLOOD WATER RISKS FOR ADULT EXPOSURE
LOWER DARBY CREEK AREA**

CONTAMINANT	RSL	RSL	Maximum Detection	Cancer Risk	Hazard Index
	Carcinogen	Noncarcinogen			
Acetone	NA	1.26E+07	16		1.3E-07
Bromodichloromethane	30600	11100	0.3	9.8E-12	2.7E-06
Chloroform	44000	98700	0.8	1.8E-11	8.1E-07
Chloromethane	NA	NA	1.2		
m,p-Xylenes	NA	31400	0.16		5.1E-07
Toluene	NA	210000	0.18		8.6E-08
Bis(2-ethylhexyl)phthalate	913000	209000	1.3	1.4E-12	6.2E-07
Dimethylphthalate	NA	277000	10		3.6E-06
cis-Chlordane	77.2	11.6	0.0087	1.1E-10	7.5E-05
Dieldrin	5.81	6.65	0.033	5.7E-09	5.0E-04
trans-Chlordane	77.2	11.6	0.0052	6.7E-11	4.5E-05
Aluminum	NA	4.86E+06	1710		3.5E-05
Arsenic	4260	1460	2.1	4.9E-10	1.4E-04
Barium	NA	120000	74.6		6.2E-05
Cobalt	NA	21500	1.8		8.4E-06
Copper	NA	48600	17.6		3.6E-05
Iron	NA	3.40E+06	2000		5.9E-05
Lead	NA	NA	32		
Manganese	NA	8460	110		1.3E-03
Nickel	NA	31000	2.9		9.4E-06
Vanadium	NA	2320	8.4		3.6E-04
Zinc	NA	1.86E+06	46.7		2.5E-06
Mercury	NA	1200	0.35		2.9E-05
Cyanide	NA	97300	3.6		3.7E-06
				6.4E-09	2.7E-03

**TABLE 3
FLOOD WATER RISKS FOR CHILD EXPOSURE
LOWER DARBY CREEK AREA**

CONTAMINANT	RSL	RSL	Maximum Detection	Cancer Risk	Hazard Index
	Carcinogen	Noncarcinogen			
Acetone	NA	3.47E+06	16		4.6E-07
Bromodichloromethane	10800	3870	0.3	2.8E-11	7.8E-06
Chloroform	15800	35400	0.8	5.1E-11	2.3E-06
Chloromethane	NA	NA	1.2		
m,p-Xylenes	NA	11800	0.16		1.4E-06
Toluene	NA	78500	0.18		2.3E-07
Bis(2-ethylhexyl)phthalate	228000	48500	1.3	5.7E-12	2.7E-06
Dimethylphthalate	NA	90200	10		1.1E-05
cis-Chlordane	29.3	4.4	0.0087	3.0E-10	2.0E-04
Dieldrin	2.2	2.52	0.033	1.5E-08	1.3E-03
trans-Chlordane	29.3	4.4	0.0052	1.8E-10	1.2E-04
Aluminum	NA	1.43E+06	1710		1.2E-04
Arsenic	1280	428	2.1	1.6E-09	4.9E-04
Barium	NA	44100	74.6		1.7E-04
Cobalt	NA	5680	1.8		3.2E-05
Copper	NA	14300	17.6		1.2E-04
Iron	NA	998000	2000		2.0E-04
Lead	NA	NA	32		
Manganese	NA	3150	110		3.5E-03
Nickel	NA	10800	2.9		2.7E-05
Vanadium	NA	868	8.4		9.7E-04
Zinc	NA	512000	46.7		9.1E-06
Mercury	NA	441	0.35		7.9E-05
Cyanide	NA	28500	3.6		1.3E-05
				1.7E-08	7.4E-03

ATTACHMENT 1

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Equation Inputs for Surface Water

* Inputted values different from Recreator defaults are highlighted.

Variable	Recreator Surface Water Default Value	Form-input Value
BW ₀₋₂ (body weight) kg	15	15
BW ₂₋₆ (body weight) kg	15	15
BW ₆₋₁₆ (body weight) kg	80	80
BW ₁₆₋₃₀ (body weight) kg	80	80
BW _a (body weight - adult) kg	80	80
BW _{rec-a} (body weight - adult) kg	80	80
DFW _{rec-adj} (age-adjusted dermal factor) cm ² -event/kg	0	500.5
DFWM _{rec-adj} (mutagenic age-adjusted dermal factor) cm ² -event/kg	0	500.5
ED _{rec} (exposure duration - recreator) years	26	0.5
ED ₀₋₂ (exposure duration) years	2	0
ED ₂₋₆ (exposure duration) years	4	0
ED ₆₋₁₆ (exposure duration) years	10	0
ED ₁₆₋₃₀ (exposure duration) years	10	0.5
ED _{rec-a} (exposure duration - adult) years	20	0.5
EF _{rec-w} (exposure frequency) days/yea	0	7
EF ₂₋₆ (exposure frequency) days/yea	0	0
EF ₆₋₁₆ (exposure frequency) days/yea	0	0
EF ₁₆₋₃₀ (exposure frequency) days/yea	0	7
EF _{rec-a} (adult exposure frequency) days/yea	0	7
ET ₀₋₂ (exposure time) hours/event	0	0
ET ₂₋₆ (exposure time) hours/event	0	0
ET ₆₋₁₆ (exposure time) hours/event	0	0
ET ₁₆₋₃₀ (exposure time) hours/event	0	4
ET _{rec-a} (adult exposure time) hours/event	0	4
EV ₀₋₂ (events) events/day	0	0
EV ₂₋₆ (events) events/day	0	0
EV ₆₋₁₆ (events) events/day	0	0
EV ₁₆₋₃₀ (events) events/day	0	1
EV _{rec-a} (adult) events/day	0	1
THQ (target hazard quotient) unitless	0.1	0.1
IFW _{rec-adj} (age-adjusted water intake rate) L/kg	0	0.002
IFWM _{rec-adj} (mutagenic age-adjusted water intake rate) L/kg	0	0.002
IRW ₀₋₂ (water intake rate) L/hour	0.12	0
IRW ₂₋₆ (water intake rate) L/hour	0.12	0
IRW ₆₋₁₆ (water intake rate) L/hour	0.124	0
IRW ₁₆₋₃₀ (water intake rate) L/hour	0.0985	0.01
IRW _{rec} (water intake rate - adult) L/day	0.11	0.01
IRW _{rec-a} (water intake rate - adult) L/h	0.11	0.01
LT (lifetime - recreator) years	70	70
SA ₀₋₂ (skin surface area) cm ²	6365	0
SA ₂₋₆ (skin surface area) cm ²	6365	0
SA ₆₋₁₆ (skin surface area) cm ²	19652	0
SA ₁₆₋₃₀ (skin surface area) cm ²	19652	11440
SA _{rec} (skin surface area - adult) cm ²	19652	11440
SA _{rec-a} (skin surface area - adult) cm ²	19652	11440
Apparent thickness of stratum corneum (cm)	0.001	0.001
TR (target risk) unitless	0.000001	0.000001

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Acenaphthene	-	-	-	-	-	-	2090000.0000	17100.0000	17000.0000	1.70E+04nc
Acephate	-	-	-	-	-	-	41700.0000	585000.0000	38900.0000	3.89E+04nc
Acetaldehyde	-	-	-	-	-	-	-	-	-	-
Acetochlor	-	-	-	-	-	-	209000.0000	16000.0000	14900.0000	1.49E+04nc
Acetone	-	-	-	-	-	-	20900000.0000	32100000.0000	12600000.0000	1.26E+07nc
Acetone Cyanohydrin	-	-	-	-	-	-	-	-	-	-
Acetonitrile	-	-	-	-	-	-	626000.0000	917000.0000	372000.0000	3.72E+05nc
Acetophenone	-	-	-	-	-	-	8340000.0000	1590000.0000	1330000.0000	1.33E+06nc
Acetylaminofluorene, 2-	3360.0000	171.0000	163.0000	-	-	-	-	-	-	1.63E+02ca
Acrolein	-	-	-	-	-	-	41700.0000	44100.0000	21400.0000	2.14E+04nc
Acrylamide	25600.0000	101000.0000	20400.0000	-	-	-	10400.0000	36000.0000	8090.0000	8.09E+03nc
Acrylic Acid	-	-	-	-	-	-	2090000.0000	1540000.0000	885000.0000	8.85E+05nc
Acrylonitrile	23700.0000	18500.0000	10400.0000	-	-	-	104000.0000	71400.0000	42400.0000	1.04E+04ca**
Adiponitrile	-	-	-	-	-	-	-	-	-	-
Alachlor	228000.0000	9450.0000	9080.0000	-	-	-	104000.0000	3780.0000	3650.0000	3.65E+03nc
Aldicarb	-	-	-	-	-	-	10400.0000	7500.0000	4360.0000	4.36E+03nc
Aldicarb Sulfone	-	-	-	-	-	-	10400.0000	131000.0000	9660.0000	9.66E+03nc
Aldrin	751.0000	-	751.0000	-	-	-	417.0000	-	417.0000	4.17E+02nc
Allyl Alcohol	-	-	-	-	-	-	41700.0000	34300.0000	18800.0000	1.88E+04nc
Allyl Chloride	608000.0000	48900.0000	45200.0000	-	-	-	-	-	-	4.52E+04ca
Aluminum	-	-	-	-	-	-	10400000.0000	9120000.0000	4860000.0000	4.86E+06nc
Aluminum Phosphide	-	-	-	-	-	-	4170.0000	3650.0000	1950.0000	1.95E+03nc
Aluminum metaphosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Ametryn	-	-	-	-	-	-	939000.0000	53200.0000	50400.0000	5.04E+04nc
Aminobiphenyl, 4-	608.0000	30.3000	28.9000	-	-	-	-	-	-	2.89E+01ca
Aminophenol, m-	-	-	-	-	-	-	3130000.0000	4280000.0000	1810000.0000	1.81E+06nc
Aminophenol, o-	-	-	-	-	-	-	417000.0000	305000.0000	176000.0000	1.76E+05nc
Aminophenol, p-	-	-	-	-	-	-	2090000.0000	3690000.0000	1330000.0000	1.33E+06nc
Amitraz	-	-	-	-	-	-	26100.0000	53.3000	53.1000	5.31E+01nc
Ammonium Perchlorate	-	-	-	-	-	-	7300.0000	6380.0000	3400.0000	3.40E+03nc
Ammonium Sulfamate	-	-	-	-	-	-	2090000.0000	1820000.0000	973000.0000	9.73E+05nc
Ammonium polyphosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Amyl Alcohol, tert-	-	-	-	-	-	-	-	-	-	-
Aniline	2240000.0000	1030000.0000	706000.0000	-	-	-	73000.0000	29300.0000	20900.0000	2.09E+04nc
Anthracene	-	-	-	-	-	-	10400000.0000	45400.0000	45200.0000	4.52E+04nc
Anthraquinone, 9,10-	319000.0000	10600.0000	10300.0000	-	-	-	104000.0000	3040.0000	2950.0000	2.95E+03nc
Antimony (metallic)	-	-	-	-	-	-	4170.0000	547.0000	484.0000	4.84E+02nc
Antimony Pentoxide	-	-	-	-	-	-	5210.0000	684.0000	604.0000	6.04E+02nc
Antimony Potassium Tartrate	-	-	-	-	-	-	4170.0000	-	4170.0000	4.17E+03nc
Antimony Tetroxide	-	-	-	-	-	-	4170.0000	547.0000	484.0000	4.84E+02nc
Antimony Trichloride	-	-	-	-	-	-	4170.0000	3650.0000	1950.0000	1.95E+03nc
Antimony Trioxide	-	-	-	-	-	-	5210000.0000	684000.0000	604000.0000	6.04E+05nc
Aroclor 1016	183000.0000	-	183000.0000	-	-	-	730.0000	-	730.0000	7.30E+02nc
Aroclor 1221	6390.0000	25.1000	25.0000	-	-	-	-	-	-	2.50E+01ca
Aroclor 1232	6390.0000	25.1000	25.0000	-	-	-	-	-	-	2.50E+01ca
Aroclor 1242	6390.0000	-	6390.0000	-	-	-	-	-	-	6.39E+03ca
Aroclor 1248	6390.0000	-	6390.0000	-	-	-	-	-	-	6.39E+03ca
Aroclor 1254	6390.0000	-	6390.0000	-	-	-	313.0000	-	313.0000	3.13E+02nc
Aroclor 1260	6390.0000	-	6390.0000	-	-	-	-	-	-	6.39E+03ca

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LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Aroclor 5460	-	-	-	-	-	-	62600.0000	-	62600.0000	6.26E+04nc
Arsenic, Inorganic	8520.0000	8510.0000	4260.0000	-	-	-	3130.0000	2730.0000	1460.0000	1.46E+03nc
Arsine	-	-	-	-	-	-	36.5000	31.9000	17.0000	1.70E+01nc
Asulam	-	-	-	-	-	-	375000.0000	314000.0000	335000.0000	3.35E+05nc
Atrazine	55500.0000	5880.0000	5320.0000	-	-	-	31300.0000	2900.0000	2650.0000	2.65E+03nc
Auramine	14500.0000	1350.0000	1230.0000	-	-	-	-	-	-	1.23E+03ca
Avermectin B1	-	-	-	-	-	-	4170.0000	-	4170.0000	4.17E+03nc
Azinphos-methyl	-	-	-	-	-	-	31300.0000	4510.0000	3940.0000	3.94E+03nc
Azobenzene	116000.0000	1520.0000	1500.0000	-	-	-	-	-	-	1.50E+03ca
Azodicarbonamide	-	-	-	-	-	-	1040000.0000	28500000.0000	1010000.0000	1.01E+07nc
Barium	-	-	-	-	-	-	2090000.0000	128000.0000	120000.0000	1.20E+05nc
Benfluralin	-	-	-	-	-	-	3130000.0000	13000.0000	13000.0000	1.30E+04nc
Benomyl	-	-	-	-	-	-	521000.0000	166000.0000	126000.0000	1.26E+05nc
Bensulfuron-methyl	-	-	-	-	-	-	2090000.0000	1320000.0000	808000.0000	8.08E+05nc
Bentazon	-	-	-	-	-	-	313000.0000	51400.0000	44200.0000	4.42E+04nc
Benz[a]anthracene	128000.0000	-	128000.0000	-	-	-	-	-	-	1.28E+05ca
Benzaldehyde	3190000.0000	697000.0000	572000.0000	-	-	-	2090000.0000	398000.0000	335000.0000	3.35E+05nc
Benzene	232000.0000	14100.0000	13300.0000	-	-	-	104000.0000	5550.0000	5270.0000	5.27E+03nc
Benzenediamine-2-methyl sulfate, 1,4-	128000.0000	-	128000.0000	-	-	-	31300.0000	-	31300.0000	3.13E+04nc
Benzenethiol	-	-	-	-	-	-	104000.0000	4390.0000	4210.0000	4.21E+03nc
Benzidine	55.5000	31.4000	20.1000	-	-	-	31300.0000	15500.0000	10400.0000	2.01E+01ca
Benzo(j)fluoranthene	10600.0000	-	10600.0000	-	-	-	-	-	-	1.06E+04ca
Benzo(a)pyrene	12800.0000	-	12800.0000	-	-	-	3130.0000	-	3130.0000	3.13E+03nc
Benzo(b)fluoranthene	128000.0000	-	128000.0000	-	-	-	-	-	-	1.28E+05ca
Benzo(k)fluoranthene	1280000.0000	-	1280000.0000	-	-	-	-	-	-	1.28E+06ca
Benzoic Acid	-	-	-	-	-	-	4170000.0000	5220000.0000	4640000.0000	4.64E+06nc
Benzotrichloride	983.0000	12.5000	12.4000	-	-	-	521.0000	5.8100	5.7500	5.75E+00nc
Benzyl Alcohol	-	-	-	-	-	-	3130000.0000	1090000.0000	806000.0000	8.06E+05nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Benzyl Chloride	75100.0000	5890.0000	5460.0000	-	-	-	20900.0000	1430.0000	1340.0000	1.34E+03nc
Beryllium and compounds	-	-	-	-	-	-	52100.0000	319.0000	317.0000	3.17E+02nc
Bifenox	-	-	-	-	-	-	10400000.0000	139000.0000	137000.0000	1.37E+05nc
Biphenthrin	-	-	-	-	-	-	156000.0000	-	156000.0000	1.56E+05nc
Biphenyl, 1,1'-	1600000.0000	13800.0000	13600.0000	-	-	-	1040000.0000	7860.0000	7800.0000	7.80E+03nc
Bis(2-chloro-1-methylethyl) ether	-	-	-	-	-	-	10400.0000	818.0000	759.0000	7.59E+02nc
Bis(2-chloroethoxy)methane	-	-	-	-	-	-	313000.0000	151000.0000	102000.0000	1.02E+05nc
Bis(2-chloroethyl)ether	11600.0000	4910.0000	3450.0000	-	-	-	-	-	-	3.45E+03ca
Bis(2-ethylhexyl)phthalate	913000.0000	-	913000.0000	-	-	-	209000.0000	-	209000.0000	2.09E+05nc
Bis(chloromethyl)ether	58.1000	55.2000	28.3000	-	-	-	-	-	-	2.83E+01ca
Bisphenol A	-	-	-	-	-	-	6260000.0000	212000.0000	205000.0000	2.05E+05nc
Boron And Borates Only	-	-	-	-	-	-	2090000.0000	1820000.0000	973000.0000	9.73E+05nc
Boron Trichloride	-	-	-	-	-	-	20900000.0000	18200000.0000	9730000.0000	9.73E+06nc
Boron Trifluoride	-	-	-	-	-	-	417000.0000	365000.0000	195000.0000	1.95E+05nc
Bromate	18300.0000	18200.0000	9120.0000	-	-	-	41700.0000	36500.0000	19500.0000	9.12E+03ca**
Bromo-2-chloroethane, 1-	6390.0000	1040.0000	896.0000	-	-	-	-	-	-	8.96E+02ca
Bromo-3-fluorobenzene, 1-	-	-	-	-	-	-	31300.0000	1310.0000	1260.0000	1.26E+03nc
Bromo-4-fluorobenzene, 1-	-	-	-	-	-	-	31300.0000	1030.0000	994.0000	9.94E+02nc
Bromobenzene	-	-	-	-	-	-	209000.0000	6760.0000	6550.0000	6.55E+03nc
Bromochloromethane	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	206000.0000	36000.0000	30600.0000	-	-	-	83400.0000	12700.0000	11100.0000	1.11E+04nc
Bromoform	1620000.0000	301000.0000	254000.0000	-	-	-	313000.0000	50900.0000	43800.0000	4.38E+04nc
Bromomethane	-	-	-	-	-	-	52100.0000	13700.0000	10900.0000	1.09E+04nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Bromophos	-	-	-	-	-	-	521000.0000	2990.0000	2980.0000	2.98E+03nc
Bromopropane, 1-	-	-	-	-	-	-	-	-	-	
Bromoxynil	124000.0000	6580.0000	6250.0000	-	-	-	209000.0000	9680.0000	9250.0000	6.25E+03ca**
Bromoxynil Octanoate	124000.0000	774.0000	769.0000	-	-	-	209000.0000	1140.0000	1130.0000	7.69E+02ca**
Butadiene, 1,3-	21300.0000	1220.0000	1150.0000	-	-	-	-	-	-	1.15E+03ca
Butanoic acid, 4-(2,4-dichlorophenoxy)-	-	-	-	-	-	-	834000.0000	26100.0000	25300.0000	2.53E+04nc
Butanol, N-	-	-	-	-	-	-	10400000.0000	3490000.0000	2620000.0000	2.62E+06nc
Butyl Benzyl Phthalate	6720000.0000	57700.0000	57200.0000	-	-	-	20900000.0000	157000.0000	156000.0000	5.72E+04ca**
Butyl Formate, tert-	-	-	-	-	-	-	83400.0000	23800.0000	18500.0000	1.85E+04nc
Butyl alcohol, sec-	-	-	-	-	-	-	20900000.0000	10500000.0000	6990000.0000	6.99E+06nc
Butylate	-	-	-	-	-	-	521000.0000	4630.0000	4590.0000	4.59E+03nc
Butylated hydroxyanisole	63900000.0000	536000.0000	531000.0000	-	-	-	-	-	-	5.31E+05ca
Butylated hydroxytoluene	3550000.0000	8570.0000	8550.0000	-	-	-	10400000.0000	22000.0000	22000.0000	8.55E+03ca**
Butylbenzene, n-	-	-	-	-	-	-	1040000.0000	-	1040000.0000	1.04E+06nc
Butylbenzene, sec-	-	-	-	-	-	-	1040000.0000	-	1040000.0000	1.04E+06nc
Butylbenzene, tert-	-	-	-	-	-	-	1040000.0000	5750.0000	5720.0000	5.72E+03nc
Butylphthalyl Butylglycolate	-	-	-	-	-	-	10400000.0000	223000.0000	218000.0000	2.18E+05nc
Cacodylic Acid	-	-	-	-	-	-	209000.0000	303000.0000	123000.0000	1.23E+05nc
Cadmium (Water)	-	-	-	-	-	-	5210.0000	228.0000	218.0000	2.18E+02nc
Calcium Cyanide	-	-	-	-	-	-	417000.0000	365000.0000	195000.0000	1.95E+05nc
Calcium pyrophosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Caprolactam	-	-	-	-	-	-	5210000.0000	3730000.0000	2170000.0000	2.17E+06nc
Captafol	85200.0000	3850.0000	3680.0000	-	-	-	20900.0000	825.0000	794.0000	7.94E+02nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Captan	5550000.0000	762000.0000	670000.0000	-	-	-	1360000.0000	163000.0000	145000.0000	1.45E+05nc
Carbaryl	-	-	-	-	-	-	1040000.0000	125000.0000	111000.0000	1.11E+05nc
Carbofuran	-	-	-	-	-	-	52100.0000	7800.0000	6790.0000	6.79E+03nc
Carbon Disulfide	-	-	-	-	-	-	1040000.0000	72100.0000	67400.0000	6.74E+04nc
Carbon Tetrachloride	183000.0000	8350.0000	7980.0000	-	-	-	73000.0000	2920.0000	2810.0000	2.81E+03nc
Carbonyl Sulfide	-	-	-	-	-	-	-	-	-	-
Carbosulfan	-	-	-	-	-	-	1040000.0000	378.0000	376.0000	3.76E+02nc
Carboxin	-	-	-	-	-	-	1040000.0000	225000.0000	185000.0000	1.85E+05nc
Ceric oxide	-	-	-	-	-	-	-	-	-	-
Chloral	-	-	-	-	-	-	209000.0000	128000.0000	79100.0000	7.91E+04nc
Chloral Hydrate	-	-	-	-	-	-	1040000.0000	752000.0000	437000.0000	4.37E+05nc
Chloramben	-	-	-	-	-	-	156000.0000	39000.0000	31200.0000	3.12E+04nc
Chloranil	31700.0000	7460.0000	6040.0000	-	-	-	-	-	-	6.04E+03ca
Chlordane (technical mixture)	36500.0000	77.4000	77.2000	-	-	-	6260.0000	11.6000	11.6000	1.16E+01nc
Chlordecone (Kepone)	1280.0000	13.8000	13.7000	-	-	-	3130.0000	29.6000	29.3000	1.37E+01ca**
Chlorfenvinphos	-	-	-	-	-	-	20900.0000	869.0000	834.0000	8.34E+02nc
Chlorimuron, Ethyl-	-	-	-	-	-	-	939000.0000	373000.0000	267000.0000	2.67E+05nc
Chlorine	-	-	-	-	-	-	1040000.0000	912000.0000	486000.0000	4.86E+05nc
Chlorine Dioxide	-	-	-	-	-	-	313000.0000	273000.0000	146000.0000	1.46E+05nc
Chlorite (Sodium Salt)	-	-	-	-	-	-	1040000.0000	912000.0000	486000.0000	4.86E+05nc
Chloro-1,1-difluoroethane, 1-	-	-	-	-	-	-	-	-	-	-
Chloro-1,3-butadiene, 2-	-	-	-	-	-	-	209000.0000	6970.0000	6740.0000	6.74E+03nc
Chloro-2-methylaniline HCl, 4-	27800.0000	1010000.0000	27000.0000	-	-	-	-	-	-	2.70E+04ca
Chloro-2-methylaniline, 4-	128000.0000	12100.0000	11100.0000	-	-	-	5210000.0000	433000.0000	400000.0000	1.11E+04ca*
Chloroacetaldehyde, 2-	47300.0000	63600.0000	27100.0000	-	-	-	-	-	-	2.71E+04ca
Chloroacetophenone, 2-	-	-	-	-	-	-	-	-	-	-
Chloroaniline, p-	63900.0000	10200.0000	8820.0000	-	-	-	5210.0000	731.0000	641.0000	6.41E+02nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chlorobenzene	-	-	-	-	-	-	730000.0000	19700.0000	19200.0000	1.92E+04nc
Chlorobenzene sulfonic acid, p-	-	-	-	-	-	-	10400000.0000	95400000.0000	9400000.0000	9.40E+06nc
Chlorobenzilate	116000.0000	1200.0000	1190.0000	-	-	-	209000.0000	1890.0000	1870.0000	1.19E+03ca**
Chlorobenzoic Acid, p-	-	-	-	-	-	-	834000.0000	44600.0000	42300.0000	4.23E+04nc
Chlorobenzotrifluoride, 3-nitro-4-	-	-	-	-	-	-	1040.0000	33.2000	32.2000	3.22E+01nc
Chlorobenzotrifluoride, 4-	-	-	-	-	-	-	313000.0000	4930.0000	4850.0000	4.85E+03nc
Chlorobutane, 1-	-	-	-	-	-	-	730000.0000	21600.0000	20900.0000	2.09E+04nc
Chlorodifluoromethane	-	-	-	-	-	-	-	-	-	-
Chloroethanol, 2-	-	-	-	-	-	-	2090000.0000	2750000.0000	1190000.0000	1.19E+06nc
Chloroform	412000.0000	49200.0000	44000.0000	-	-	-	1040000.0000	109000.0000	98700.0000	4.40E+04ca**
Chloromethane	-	-	-	-	-	-	-	-	-	-
Chloromethyl Methyl Ether	5320.0000	5130.0000	2610.0000	-	-	-	-	-	-	2.61E+03ca
Chloronaphthalene, Beta-	-	-	-	-	-	-	2090000.0000	18600.0000	18500.0000	1.85E+04nc
Chloronitrobenzene, o-	42600.0000	4880.0000	4380.0000	-	-	-	209000.0000	20900.0000	19000.0000	4.38E+03ca**
Chloronitrobenzene, p-	213000.0000	19400.0000	17800.0000	-	-	-	7300.0000	583.0000	540.0000	5.40E+02nc
Chlorophenol, 2-	-	-	-	-	-	-	83400.0000	7290.0000	6710.0000	6.71E+03nc
Chloropicrin	-	-	-	-	-	-	-	-	-	-
Chlorothalonil	751000.0000	62400.0000	57600.0000	-	-	-	156000.0000	11400.0000	10600.0000	1.06E+04nc
Chlorotoluene, o-	-	-	-	-	-	-	209000.0000	2810.0000	2770.0000	2.77E+03nc
Chlorotoluene, p-	-	-	-	-	-	-	2090000.0000	31900.0000	31400.0000	3.14E+04nc
Chlorozotocin	53.2000	2160.0000	51.9000	-	-	-	-	-	-	5.19E+01ca
Chlorpropham	-	-	-	-	-	-	521000.0000	13100.0000	12800.0000	1.28E+04nc
Chlorpyrifos	-	-	-	-	-	-	31300.0000	238.0000	236.0000	2.36E+02nc

ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA

Site-specific

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Chlorpyrifos Methyl	-	-	-	-	-	-	104000.0000	1590.0000	1560.0000	1.56E+03nc
Chlorsulfuron	-	-	-	-	-	-	521000.0000	309000.0000	194000.0000	1.94E+05nc
Chlorthal-dimethyl	-	-	-	-	-	-	104000.0000	1770.0000	1740.0000	1.74E+03nc
Chlorthiophos	-	-	-	-	-	-	8340.0000	18.7000	18.6000	1.86E+01nc
Chromium(III), Insoluble Salts	-	-	-	-	-	-	15600000.0000	178000.0000	176000.0000	1.76E+05nc
Chromium(VI)	25600.0000	319.0000	315.0000	-	-	-	52100.0000	570.0000	564.0000	3.15E+02ca**
Chrysene	12800000.0000	-	12800000.0000	-	-	-	-	-	-	1.28E+07ca
Clofentazine	-	-	-	-	-	-	136000.0000	11600.0000	10700.0000	1.07E+04nc
Cobalt	-	-	-	-	-	-	31300.0000	68400.0000	21500.0000	2.15E+04nc
Copper	-	-	-	-	-	-	104000.0000	91200.0000	48600.0000	4.86E+04nc
Copper Cyanide	-	-	-	-	-	-	521000.0000	456000.0000	243000.0000	2.43E+05nc
Cresol, m-	-	-	-	-	-	-	4170000.0000	395000.0000	361000.0000	3.61E+05nc
Cresol, o-	-	-	-	-	-	-	2090000.0000	200000.0000	183000.0000	1.83E+05nc
Cresol, p-	-	-	-	-	-	-	209000.0000	20300.0000	18500.0000	1.85E+04nc
Cresol, p-chloro-m-	-	-	-	-	-	-	1040000.0000	25400.0000	24800.0000	2.48E+04nc
Cresols	-	-	-	-	-	-	1040000.0000	36400.0000	35200.0000	3.52E+04nc
Crotonaldehyde, trans-	6720.0000	3750.0000	2410.0000	-	-	-	104000.0000	50900.0000	34200.0000	2.41E+03ca*
Cumene	-	-	-	-	-	-	4170000.0000	38400.0000	38000.0000	3.80E+04nc
Cupferron	58100.0000	25000000.0000	57900.0000	-	-	-	-	-	-	5.79E+04ca
Cyanazine	15200.0000	3440.0000	2800.0000	-	-	-	20900.0000	4120.0000	3440.0000	2.80E+03ca**
Cyanide (CN-)	-	-	-	-	-	-	209000.0000	182000.0000	97300.0000	9.73E+04nc
Cyanogen	-	-	-	-	-	-	417000.0000	410000.0000	207000.0000	2.07E+05nc
Cyanogen Bromide	-	-	-	-	-	-	939000.0000	322000.0000	727000.0000	7.27E+05nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Cyanogen Chloride	-	-	-	-	-	-	521000.0000	1160000.0000	359000.0000	3.59E+05nc
Cyclohexane	-	-	-	-	-	-	-	-	-	
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	639000.0000	20500.0000	19800.0000	-	-	-	209000.0000	5840.0000	5680.0000	5.68E+03nc
Cyclohexanone	-	-	-	-	-	-	20900000.0000	10200000.0000	6830000.0000	6.83E+06nc
Cyclohexene	-	-	-	-	-	-	521000.0000	10100.0000	9940.0000	9.94E+03nc
Cyclohexylamine	-	-	-	-	-	-	3130000.0000	547000.0000	466000.0000	4.66E+05nc
Cyclopentadiene	-	-	-	-	-	-	-	-	-	
Cyfluthrin	-	-	-	-	-	-	261000.0000	858.0000	855.0000	8.55E+02nc
Cyhalothrin	-	-	-	-	-	-	104000.0000	-	104000.0000	1.04E+05nc
Cyromazine	-	-	-	-	-	-	5210000.0000	3950000.0000	2250000.0000	2.25E+06nc
DDD, p,p'- (DDD)	53200.0000	75.1000	75.0000	-	-	-	313.0000	0.3860	0.3860	3.86E-01nc
DDE, p,p'-	37600.0000	-	37600.0000	-	-	-	3130.0000	-	3130.0000	3.13E+03nc
DDT	37600.0000	-	37600.0000	-	-	-	5210.0000	-	5210.0000	5.21E+03nc
Dalapon	-	-	-	-	-	-	313000.0000	252000.0000	140000.0000	1.40E+05nc
Daminozide	710000.0000	25200000.0000	690000.0000	-	-	-	1560000.0000	48600000.0000	1520000.0000	6.90E+05ca**
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	18300000.0000	-	18300000.0000	-	-	-	2090.0000	-	2090.0000	2.09E+03nc
Decane	-	-	-	-	-	-	10400000.0000	-	10400000.0000	1.04E+07nc
Demeton	-	-	-	-	-	-	417.0000	4.8100	4.7500	4.75E+00nc
Di(2-ethylhexyl)adipate	10600000.0000	-	10600000.0000	-	-	-	6260000.0000	-	6260000.0000	6.26E+06nc
Diallate	209000.0000	1970.0000	1960.0000	-	-	-	-	-	-	1.96E+03ca
Diammonium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Diazinon	-	-	-	-	-	-	20900.0000	611.0000	593.0000	5.93E+02nc
Dibenz[a,h]anthracene	12800.0000	-	12800.0000	-	-	-	-	-	-	1.28E+04ca
Dibenzo(a,e)pyrene	1060.0000	-	1060.0000	-	-	-	-	-	-	1.06E+03ca
Dibenzofuran	-	-	-	-	-	-	41700.0000	281.0000	279.0000	2.79E+02nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Dibenzothiophene	-	-	-	-	-	-	104000.0000	525.0000	523.0000	5.23E+02nc
Dibromo-3-chloropropane, 1,2-	16000.0000	1130.0000	1060.0000	-	-	-	20900.0000	1290.0000	1220.0000	1.06E+03ca**
Dibromobenzene, 1,3-	-	-	-	-	-	-	41700.0000	855.0000	838.0000	8.38E+02nc
Dibromobenzene, 1,4-	-	-	-	-	-	-	1040000.0000	20200.0000	19800.0000	1.98E+04nc
Dibromochloromethane	152000.0000	29700.0000	24900.0000	-	-	-	730000.0000	125000.0000	107000.0000	2.49E+04ca**
Dibromoethane, 1,2-	6390.0000	1450.0000	1180.0000	-	-	-	93900.0000	18600.0000	15500.0000	1.18E+03ca*
Dibromomethane (Methylene Bromide)	-	-	-	-	-	-	93900.0000	24700.0000	19600.0000	1.96E+04nc
Dibutyl Phthalate	-	-	-	-	-	-	10400000.0000	89400.0000	88700.0000	8.87E+04nc
Dibutyltin Compounds	-	-	-	-	-	-	3130.0000	-	3130.0000	3.13E+03nc
Dibutyltin dichloride	-	-	-	-	-	-	52100.0000	42700.0000	23500.0000	2.35E+04nc
Dicalcium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Dicamba	-	-	-	-	-	-	313000.0000	55400.0000	47000.0000	4.70E+04nc
Dichloro-2-butene, 1,4-	-	-	-	-	-	-	-	-	-	
Dichloro-2-butene, cis-1,4-	-	-	-	-	-	-	-	-	-	
Dichloro-2-butene, trans-1,4-	-	-	-	-	-	-	-	-	-	
Dichloroacetic Acid	256000.0000	166000.0000	100000.0000	-	-	-	41700.0000	23700.0000	15100.0000	1.51E+04nc
Dichlorobenzene, 1,2-	-	-	-	-	-	-	626000.0000	98200.0000	96700.0000	9.67E+04nc
Dichlorobenzene, 1,3-	-	-	-	-	-	-	209000.0000	2840.0000	2800.0000	2.80E+03nc
Dichlorobenzene, 1,4-	2370000.0000	41800.0000	41100.0000	-	-	-	730000.0000	11300.0000	11100.0000	1.11E+04nc
Dichlorobenzidine, 3,3'-	28400.0000	967.0000	935.0000	-	-	-	-	-	-	9.35E+02ca
Dichlorobenzophenone, 4,4'-	-	-	-	-	-	-	939000.0000	7430.0000	7380.0000	7.38E+03nc
Dichlorobenzotrifluoride, 3,4-	-	-	-	-	-	-	521000.0000	3940.0000	3910.0000	3.91E+03nc
Dichlorodifluoromethane	-	-	-	-	-	-	521000.0000	41600.0000	38600.0000	3.86E+04nc
Dichlorodiisopropyl ether, 2,2'-	-	-	-	-	-	-	417000.0000	5090.0000	5030.0000	5.03E+03nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Dichloroethane, 1,1-	2240000.0000	284000.0000	252000.0000	-	-	-	20900000.0000	2310000.0000	2080000.0000	2.52E+05ca**
Dichloroethane, 1,2-	140000.0000	28400.0000	23600.0000	-	-	-	209000.0000	36900.0000	31400.0000	2.36E+04ca**
Dichloroethylene, 1,1-	-	-	-	-	-	-	93900.0000	6100.0000	5730.0000	5.73E+03nc
Dichloroethylene, 1,2-cis-	-	-	-	-	-	-	209000.0000	14400.0000	13500.0000	1.35E+04nc
Dichloroethylene, 1,2-trans-	-	-	-	-	-	-	2090000.0000	144000.0000	135000.0000	1.35E+05nc
Dichlorophenol, 2,4-	-	-	-	-	-	-	209000.0000	6410.0000	6220.0000	6.22E+03nc
Dichlorophenoxy Acetic Acid, 2,4-	-	-	-	-	-	-	104000.0000	7370.0000	6880.0000	6.88E+03nc
Dichloropropane, 1,2-	345000.0000	38100.0000	34300.0000	-	-	-	417000.0000	40300.0000	36700.0000	3.43E+04ca**
Dichloropropane, 1,3-	-	-	-	-	-	-	2090000.0000	195000.0000	179000.0000	1.79E+05nc
Dichloropropanol, 2,3-	-	-	-	-	-	-	31300.0000	21800.0000	12900.0000	1.29E+04nc
Dichloropropene, 1,3-	128000.0000	12800.0000	11600.0000	-	-	-	417000.0000	36600.0000	33600.0000	1.16E+04ca**
Dichlorvos	44100.0000	29400.0000	17600.0000	-	-	-	31300.0000	18300.0000	11500.0000	1.15E+04nc
Dicrotophos	-	-	-	-	-	-	313.0000	1810.0000	267.0000	2.67E+02nc
Dicyclopentadiene	-	-	-	-	-	-	2090000.0000	42300.0000	41500.0000	4.15E+04nc
Dieldrin	798.0000	5.8500	5.8100	-	-	-	1040.0000	6.6900	6.6500	5.81E+00ca**
Diethanolamine	-	-	-	-	-	-	209000.0000	3360000.0000	196000.0000	1.96E+05nc
Diethyl Phthalate	-	-	-	-	-	-	62600000.0000	8090000.0000	7160000.0000	7.16E+06nc
Diethyl-meta-Toluamide, N,N (DEET)	-	-	-	-	-	-	10400000.0000	1520000.0000	1330000.0000	1.33E+06nc
Diethylene Glycol Monobutyl Ether	-	-	-	-	-	-	3130000.0000	4230000.0000	1800000.0000	1.80E+06nc
Diethylene Glycol Monoethyl Ether	-	-	-	-	-	-	6260000.0000	34900000.0000	5310000.0000	5.31E+06nc
Diethylformamide	-	-	-	-	-	-	10400.0000	16700.0000	6420.0000	6.42E+03nc
Diethylstilbestrol	36.5000	0.1410	0.1400	-	-	-	-	-	-	1.40E-01ca
Difenzoquat	-	-	-	-	-	-	866000.0000	4110000.0000	715000.0000	7.15E+05nc

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LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Diflubenzuron	-	-	-	-	-	-	209000.0000	5700.0000	5550.0000	5.55E+03nc
Difluoroethane, 1,1-	-	-	-	-	-	-	-	-	-	
Difluoropropane, 2,2-	-	-	-	-	-	-	-	-	-	
Dihydrosafrole	290000.0000	4760.0000	4680.0000	-	-	-	-	-	-	4.68E+03ca
Diisopropyl Ether	-	-	-	-	-	-	-	-	-	
Diisopropyl Methylphosphonate	-	-	-	-	-	-	10400000.0000	8050000.0000	4540000.0000	4.54E+06nc
Dimagnesium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Dimethipin	-	-	-	-	-	-	227000.0000	1390000.0000	195000.0000	1.95E+05nc
Dimethoate	-	-	-	-	-	-	2090.0000	3480.0000	1300.0000	1.30E+03nc
Dimethoxybenzidine, 3,3'-	7980.0000	3480.0000	2420.0000	-	-	-	10400.0000	3970.0000	2880.0000	2.42E+03ca**
Dimethyl methylphosphonate	7510000.0000	48000000.0000	6500000.0000	-	-	-	626000.0000	3500000.0000	531000.0000	5.31E+05nc
Dimethylamino azobenzene [p-]	2780.0000	15.4000	15.3000	-	-	-	-	-	-	1.53E+01ca
Dimethylaniline HCl, 2,4-	22000.0000	871000.0000	21500.0000	-	-	-	-	-	-	2.15E+04ca
Dimethylaniline, 2,4-	63900.0000	12000.0000	10100.0000	-	-	-	20900.0000	3440.0000	2950.0000	2.95E+03nc
Dimethylaniline, N,N-	473000.0000	34700.0000	32300.0000	-	-	-	20900.0000	1340.0000	1260.0000	1.26E+03nc
Dimethylbenz(a)anthracene, 7,12-	51.1000	-	51.1000	-	-	-	-	-	-	5.11E+01ca
Dimethylbenzidine, 3,3'-	1160.0000	177.0000	154.0000	-	-	-	-	-	-	1.54E+02ca
Dimethylformamide	-	-	-	-	-	-	3130000.0000	18500000.0000	2680000.0000	2.68E+06nc
Dimethylhydrazine, 1,1-	-	-	-	-	-	-	1040.0000	7060.0000	909.0000	9.09E+02nc
Dimethylhydrazine, 1,2-	23.2000	65.8000	17.2000	-	-	-	8340.0000	20700.0000	5940.0000	1.72E+01ca
Dimethylphenol, 2,4-	-	-	-	-	-	-	521000.0000	34200.0000	32100.0000	3.21E+04nc
Dimethylphenol, 2,6-	-	-	-	-	-	-	62600.0000	3740.0000	3530.0000	3.53E+03nc
Dimethylphenol, 3,4-	-	-	-	-	-	-	104000.0000	7600.0000	7080.0000	7.08E+03nc
Dimethylphthalate	-	-	-	-	-	-	1040000.0000	378000.0000	277000.0000	2.77E+05nc
Dimethylterephthalate	-	-	-	-	-	-	1040000.0000	140000.0000	123000.0000	1.23E+05nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Dimethylvinylchloride	284000.0000	10200.0000	9840.0000	-	-	-	-	-	-	9.84E+03ca
Dinitro-o-cresol, 4,6-	-	-	-	-	-	-	8340.0000	1390.0000	1190.0000	1.19E+03nc
Dinitro-o-cyclohexyl Phenol, 4,6-	-	-	-	-	-	-	20900.0000	295.0000	291.0000	2.91E+02nc
Dinitrobenzene, 1,2-	-	-	-	-	-	-	10400.0000	2650.0000	2110.0000	2.11E+03nc
Dinitrobenzene, 1,3-	-	-	-	-	-	-	5210.0000	1800.0000	1340.0000	1.34E+03nc
Dinitrobenzene, 1,4-	-	-	-	-	-	-	10400.0000	3750.0000	2760.0000	2.76E+03nc
Dinitrophenol, 2,4-	-	-	-	-	-	-	209000.0000	62500.0000	48100.0000	4.81E+04nc
Dinitrotoluene Mixture, 2,4/2,6-	18800.0000	2930.0000	2530.0000	-	-	-	-	-	-	2.53E+03ca
Dinitrotoluene, 2,4-	41200.0000	8660.0000	7160.0000	-	-	-	73000.0000	13400.0000	11300.0000	7.16E+03ca**
Dinitrotoluene, 2,6-	8520.0000	1490.0000	1270.0000	-	-	-	41700.0000	6390.0000	5540.0000	1.27E+03ca**
Dinitrotoluene, 2-Amino-4,6-	-	-	-	-	-	-	3130.0000	805.0000	640.0000	6.40E+02nc
Dinitrotoluene, 4-Amino-2,6-	-	-	-	-	-	-	3130.0000	805.0000	640.0000	6.40E+02nc
Dinitrotoluene, Technical grade	28400.0000	561.0000	550.0000	-	-	-	52100.0000	902.0000	887.0000	5.50E+02ca**
Dinoseb	-	-	-	-	-	-	10400.0000	295.0000	287.0000	2.87E+02nc
Dioxane, 1,4-	128000.0000	331000.0000	92100.0000	-	-	-	5210000.0000	11800000.0000	3620000.0000	9.21E+04ca*
Diphenamid	-	-	-	-	-	-	313000.0000	23200.0000	21600.0000	2.16E+04nc
Diphenyl Ether	-	-	-	-	-	-	-	-	-	-
Diphenyl Sulfone	-	-	-	-	-	-	83400.0000	10900.0000	9600.0000	9.60E+03nc
Diphenylamine	-	-	-	-	-	-	209000.0000	3510.0000	3450.0000	3.45E+03nc
Diphenylhydrazine, 1,2-	16000.0000	797.0000	759.0000	-	-	-	-	-	-	7.59E+02ca
Dipotassium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Diquat	-	-	-	-	-	-	22900.0000	-	22900.0000	2.29E+04nc
Direct Black 38	1730.0000	-	1730.0000	-	-	-	-	-	-	1.73E+03ca
Direct Blue 6	1730.0000	-	1730.0000	-	-	-	-	-	-	1.73E+03ca
Direct Brown 95	1910.0000	-	1910.0000	-	-	-	-	-	-	1.91E+03ca

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LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Disodium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Disulfoton	-	-	-	-	-	-	939.0000	16.4000	16.1000	1.61E+01nc
Dithiane, 1,4-	-	-	-	-	-	-	104000.0000	67800.0000	41100.0000	4.11E+04nc
Diundecyl Phthalate	-	-	-	-	-	-	313000.0000	-	313000.0000	3.13E+05nc
Diuron	-	-	-	-	-	-	20900.0000	1940.0000	1780.0000	1.78E+03nc
Dodine	-	-	-	-	-	-	209000.0000	287000.0000	121000.0000	1.21E+05nc
EPTC	-	-	-	-	-	-	261000.0000	7870.0000	7640.0000	7.64E+03nc
Endosulfan	-	-	-	-	-	-	52100.0000	2870.0000	2720.0000	2.72E+03nc
Endosulfan Sulfate	-	-	-	-	-	-	31300.0000	2480.0000	2300.0000	2.30E+03nc
Endothall	-	-	-	-	-	-	209000.0000	44000.0000	36400.0000	3.64E+04nc
Endrin	-	-	-	-	-	-	3130.0000	20.1000	19.9000	1.99E+01nc
Epichlorohydrin	1290000.0000	1170000.0000	613000.0000	-	-	-	62600.0000	49500.0000	27600.0000	2.76E+04nc
Epoxybutane, 1,2-	-	-	-	-	-	-	-	-	-	-
Ethanol, 2-(2-methoxyethoxy)- Ethephon	-	-	-	-	-	-	417000.0000	537000.0000	387000.0000	3.87E+05nc
	-	-	-	-	-	-	52100.0000	197000.0000	41200.0000	4.12E+04nc
Ethion	-	-	-	-	-	-	20900.0000	167.0000	166.0000	1.66E+02nc
Ethoxyethanol Acetate, 2-	-	-	-	-	-	-	1040000.0000	1010000.0000	514000.0000	5.14E+06nc
Ethoxyethanol, 2-	-	-	-	-	-	-	1040000.0000	260000.0000	745000.0000	7.45E+05nc
Ethyl Acetate	-	-	-	-	-	-	730000.0000	360000.0000	241000.0000	2.41E+06nc
Ethyl Acrylate	-	-	-	-	-	-	626000.0000	143000.0000	116000.0000	1.16E+05nc
Ethyl Chloride	-	-	-	-	-	-	1040000.0000	136000.0000	120000.0000	1.20E+05nc
Ethyl Ether	-	-	-	-	-	-	5210000.0000	1720000.0000	1290000.0000	1.29E+06nc
Ethyl Methacrylate	-	-	-	-	-	-	104000.0000	10800.0000	9800.0000	9.80E+03nc
Ethyl-p-nitrophenyl Phosphonate	-	-	-	-	-	-	104.0000	0.8760	0.8690	8.69E-01nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Ethylbenzene	1160000.0000	21700.0000	21300.0000	-	-	-	521000.0000	8540.0000	8400.0000	8.40E+03nc
Ethylene Cyanohydrin	-	-	-	-	-	-	3130000.0000	16300000.0000	2630000.0000	2.63E+06nc
Ethylene Diamine	-	-	-	-	-	-	2090000.0000	-	2090000.0000	2.09E+06nc
Ethylene Glycol	-	-	-	-	-	-	8340000.0000	74500000.0000	7500000.0000	7.50E+06nc
Ethylene Glycol Monobutyl Ether	-	-	-	-	-	-	730000.0000	426000.0000	269000.0000	2.69E+05nc
Ethylene Oxide	41200.0000	67400.0000	25600.0000	-	-	-	-	-	-	2.56E+04ca
Ethylene Thiourea	284000.0000	1560000.0000	240000.0000	-	-	-	834.0000	4010.0000	691.0000	6.91E+02nc
Ethyleneimine	197.0000	310.0000	120.0000	-	-	-	-	-	-	1.20E+02ca
Ethylphthalyl Ethyl Glycolate	-	-	-	-	-	-	31300000.0000	8420000.0000	6630000.0000	6.63E+06nc
Fenamiphos	-	-	-	-	-	-	2610.0000	183.0000	171.0000	1.71E+02nc
Fenpropathrin	-	-	-	-	-	-	261000.0000	400.0000	399.0000	3.99E+02nc
Fenvalerate	-	-	-	-	-	-	261000.0000	-	261000.0000	2.61E+05nc
Fluometuron	-	-	-	-	-	-	136000.0000	18700.0000	16500.0000	1.65E+04nc
Fluoranthene	-	-	-	-	-	-	1040000.0000	-	1040000.0000	1.04E+06nc
Fluorene	-	-	-	-	-	-	4170000.0000	25300.0000	25200.0000	2.52E+04nc
Fluoride	-	-	-	-	-	-	417000.0000	365000.0000	195000.0000	1.95E+05nc
Fluorine (Soluble Fluoride)	-	-	-	-	-	-	626000.0000	547000.0000	292000.0000	2.92E+05nc
Fluorobenzene	-	-	-	-	-	-	-	-	-	-
Fluridone	-	-	-	-	-	-	834000.0000	77300.0000	70700.0000	7.07E+04nc
Flurprimidol	-	-	-	-	-	-	417000.0000	26300.0000	24700.0000	2.47E+04nc
Flusilazole	-	-	-	-	-	-	20900.0000	772.0000	745.0000	7.45E+02nc
Flutolanil	-	-	-	-	-	-	5210000.0000	203000.0000	196000.0000	1.96E+05nc
Fluvalinate	-	-	-	-	-	-	104000.0000	-	104000.0000	1.04E+05nc
Folpet	-	-	-	-	-	-	1040000.0000	113000.0000	102000.0000	1.02E+05nc
Fomesafen	-	-	-	-	-	-	26100.0000	6570.0000	5250.0000	5.25E+03nc
Fonofos	-	-	-	-	-	-	20900.0000	342.0000	337.0000	3.37E+02nc
Formaldehyde	608000.0000	311000.0000	206000.0000	-	-	-	3130000.0000	1400000.0000	967000.0000	2.06E+05ca**

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Formic Acid	-	-	-	-	-	-	9390000.0000	19800000.0000	6370000.0000	6.37E+06nc
Fosetyl-AL	-	-	-	-	-	-	26100000.0000	-	26100000.0000	2.61E+07nc
Furan	-	-	-	-	-	-	104000.0000	16200.0000	14000.0000	1.40E+04nc
Furazolidone	3360.0000	21900.0000	2910.0000	-	-	-	-	-	-	2.91E+03ca
Furfural	-	-	-	-	-	-	313000.0000	274000.0000	146000.0000	1.46E+05nc
Furium	8520.0000	3970.0000	2710.0000	-	-	-	-	-	-	2.71E+03ca
Furmecycloz	426000.0000	4180.0000	4140.0000	-	-	-	-	-	-	4.14E+03ca
Gadolinium	-	-	-	-	-	-	417000.0000	365000.0000	195000.0000	1.95E+05nc
Glufosinate, Ammonium	-	-	-	-	-	-	62600.0000	-	62600.0000	6.26E+04nc
Glutaraldehyde	-	-	-	-	-	-	1040000.0000	2360000.0000	723000.0000	7.23E+05nc
Glycidyl	-	-	-	-	-	-	41700.0000	62400.0000	25000.0000	2.50E+04nc
Glyphosate	-	-	-	-	-	-	1040000.0000	-	1040000.0000	1.04E+06nc
Guanidine	-	-	-	-	-	-	104000.0000	1360000.0000	96900.0000	9.69E+04nc
Guanidine Chloride	-	-	-	-	-	-	209000.0000	-	209000.0000	2.09E+05nc
Guanidine Nitrate	-	-	-	-	-	-	313000.0000	-	313000.0000	3.13E+05nc
Haloxypop, Methyl	-	-	-	-	-	-	521.0000	16.7000	16.2000	1.62E+01nc
Heptachlor	2840.0000	4.9800	4.9800	-	-	-	1040.0000	1.6000	1.6000	1.60E+00nc
Heptachlor Epoxide	1400.0000	15.2000	15.0000	-	-	-	136.0000	1.2900	1.2700	1.27E+00nc
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	3280.0000	-	3280.0000	-	-	-	243.0000	-	243.0000	2.43E+02nc
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	9.8300	-	9.8300	-	-	-	0.7300	-	0.7300	7.30E-01nc
Heptanal, n-	-	-	-	-	-	-	-	-	-	-
Heptane, N-	-	-	-	-	-	-	31300.0000	-	31300.0000	3.13E+04nc
Hexabromobenzene	-	-	-	-	-	-	209000.0000	-	209000.0000	2.09E+05nc
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	-	-	-	-	-	-	2090.0000	-	2090.0000	2.09E+03nc
Hexachlorobenzene	7980.0000	-	7980.0000	-	-	-	104.0000	-	104.0000	1.04E+02nc
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	3280.0000	-	3280.0000	-	-	-	243.0000	-	243.0000	2.43E+02nc

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LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	3280.0000	-	3280.0000	-	-	-	243.0000	-	243.0000	2.43E+02nc
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 156)	3280.0000	-	3280.0000	-	-	-	243.0000	-	243.0000	2.43E+02nc
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	3.2800	-	3.2800	-	-	-	0.2430	-	0.2430	2.43E-01nc
Hexachlorobutadiene	164000.0000	932.0000	927.0000	-	-	-	10400.0000	51.9000	51.7000	5.17E+01nc
Hexachlorocyclohexane, Alpha-	2030.0000	37.4000	36.7000	-	-	-	83400.0000	1350.0000	1320.0000	3.67E+01ca*
Hexachlorocyclohexane, Beta-	7100.0000	131.0000	128.0000	-	-	-	6260.0000	101.0000	99.3000	9.93E+01nc
Hexachlorocyclohexane, Gamma- (Lindane)	11600.0000	214.0000	210.0000	-	-	-	104.0000	1.6800	1.6600	1.66E+00nc
Hexachlorocyclohexane, Technical	7100.0000	131.0000	128.0000	-	-	-	-	-	-	1.28E+02ca
Hexachlorocyclopentadiene	-	-	-	-	-	-	1040000.0000	3780.0000	3770.0000	3.77E+03nc
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	0.9830	-	0.9830	-	-	-	0.0730	-	0.0730	7.30E-02nc
Hexachlorodibenzo-p-dioxin, Mixture	2.0600	-	2.0600	-	-	-	-	-	-	2.06E+00ca
Hexachlorodibenzofuran, 1,2,3,4,7,8-	0.9830	-	0.9830	-	-	-	0.0730	-	0.0730	7.30E-02nc
Hexachloroethane	319000.0000	3730.0000	3690.0000	-	-	-	104000.0000	1070.0000	1050.0000	1.05E+03nc
Hexachlorophene	-	-	-	-	-	-	31300.0000	-	31300.0000	3.13E+04nc
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	160000.0000	253000.0000	97900.0000	-	-	-	1040000.0000	1450000.0000	606000.0000	9.79E+04ca**
Hexamethylene Diisocyanate, 1,6-	-	-	-	-	-	-	-	-	-	
Hexamethylene diisocyanate biuret	-	-	-	-	-	-	-	-	-	
Hexamethylene diisocyanate isocyanurate	-	-	-	-	-	-	-	-	-	
Hexamethylphosphoramide	-	-	-	-	-	-	41700.0000	101000.0000	29500.0000	2.95E+04nc
Hexane, Commercial	-	-	-	-	-	-	-	-	-	
Hexane, N-	-	-	-	-	-	-	3130000.0000	16300.0000	16200.0000	1.62E+04nc
Hexanedioic Acid	-	-	-	-	-	-	20900000.0000	50600000.0000	14800000.0000	1.48E+07nc
Hexanol, 1-,2-ethyl- (2-Ethyl-1-hexanol)	1340000.0000	57600.0000	55200.0000	-	-	-	730000.0000	27300.0000	26400.0000	2.64E+04nc
Hexanone, 2-	-	-	-	-	-	-	52100.0000	10900.0000	9000.0000	9.00E+03nc
Hexazinone	-	-	-	-	-	-	344000.0000	129000.0000	94000.0000	9.40E+04nc
Hexythiazox	-	-	-	-	-	-	261000.0000	789.0000	787.0000	7.87E+02nc
HpCDD, 1,2,3,4,6,7,8,-	9.8300	-	9.8300	-	-	-	0.7300	-	0.7300	7.30E-01nc
HpCDF, 1,2,3,4,7,8,9-	9.8300	-	9.8300	-	-	-	0.7300	-	0.7300	7.30E-01nc
HxCDD, 1,2,3,6,7,8-	0.9830	-	0.9830	-	-	-	0.0730	-	0.0730	7.30E-02nc

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Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
HxCDD, 1,2,3,7,8,9-	0.9830	-	0.9830	-	-	-	0.0730	-	0.0730	7.30E-02nc
HxCDF, 1,2,3,6,7,8-	0.9830	-	0.9830	-	-	-	0.0730	-	0.0730	7.30E-02nc
HxCDF, 1,2,3,7,8,9-	0.9830	-	0.9830	-	-	-	0.0730	-	0.0730	7.30E-02nc
HxCDF, 2,3,4,6,7,8-	0.9830	-	0.9830	-	-	-	0.0730	-	0.0730	7.30E-02nc
Hydramethylnon	-	-	-	-	-	-	177000.0000	158000.0000	83600.0000	8.36E+04nc
Hydrazine	4260.0000	97500.0000	4080.0000	-	-	-	9390.0000	188000.0000	8940.0000	4.08E+03ca**
Hydrazine Sulfate	4260.0000	4250.0000	2130.0000	-	-	-	-	-	-	2.13E+03ca
Hydrogen Chloride	-	-	-	-	-	-	-	-	-	-
Hydrogen Cyanide	-	-	-	-	-	-	6260.0000	5470.0000	2920.0000	2.92E+03nc
Hydrogen Fluoride	-	-	-	-	-	-	417000.0000	365000.0000	195000.0000	1.95E+05nc
Hydrogen Sulfide	-	-	-	-	-	-	313000.0000	273000.0000	146000.0000	1.46E+05nc
Hydroquinone	213000.0000	188000.0000	99900.0000	-	-	-	4170000.0000	3220000.0000	1820000.0000	9.99E+04ca*
Imazalil	209000.0000	6570.0000	6370.0000	-	-	-	26100.0000	717.0000	698.0000	6.98E+02nc
Imazaquin	-	-	-	-	-	-	2610000.0000	1410000.0000	917000.0000	9.17E+05nc
Imazethapyr	-	-	-	-	-	-	26100000.0000	3940000.0000	3420000.0000	3.42E+06nc
Indeno[1,2,3-cd]pyrene	128000.0000	-	128000.0000	-	-	-	-	-	-	1.28E+05ca
Iodine	-	-	-	-	-	-	104000.0000	91200.0000	48600.0000	4.86E+04nc
Iprodione	-	-	-	-	-	-	417000.0000	49600.0000	44300.0000	4.43E+04nc
Iron	-	-	-	-	-	-	7300000.0000	6380000.0000	3400000.0000	3.40E+06nc
Isobutyl Alcohol	-	-	-	-	-	-	31300000.0000	12600000.0000	8980000.0000	8.98E+06nc
Isophorone	13400000.0000	2920000.0000	2400000.0000	-	-	-	31300000.0000	5930000.0000	4990000.0000	2.40E+06ca**
Isopropalin	-	-	-	-	-	-	1560000.0000	2510.0000	2500.0000	2.50E+03nc
Isopropanol	-	-	-	-	-	-	20900000.0000	21100000.0000	10500000.0000	1.05E+07nc
Isopropyl Methyl Phosphonic Acid	-	-	-	-	-	-	1040000.0000	1760000.0000	654000.0000	6.54E+05nc
Isoxaben	-	-	-	-	-	-	521000.0000	14900.0000	14500.0000	1.45E+04nc
JP-4	-	-	-	-	-	-	-	-	-	-
JP-5	-	-	-	-	-	-	-	-	-	-
JP-7	-	-	-	-	-	-	-	-	-	-
JP-8	-	-	-	-	-	-	3130000.0000	-	3130000.0000	3.13E+06nc
Kerosene	-	-	-	-	-	-	-	-	-	-

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Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Lactofen	-	-	-	-	-	-	83400.0000	1460.0000	1430.0000	1.43E+03nc
Lactonitrile	-	-	-	-	-	-	20900.0000	109000.0000	17500.0000	1.75E+04nc
Lanthanum	-	-	-	-	-	-	521.0000	456.0000	243.0000	2.43E+02nc
Lanthanum Acetate Hydrate	-	-	-	-	-	-	217.0000	-	217.0000	2.17E+02nc
Lanthanum Chloride Heptahydrate	-	-	-	-	-	-	195.0000	170.0000	91.0000	9.10E+01nc
Lanthanum Chloride, Anhydrous	-	-	-	-	-	-	295.0000	258.0000	138.0000	1.38E+02nc
Lanthanum Nitrate Hexahydrate	-	-	-	-	-	-	167.0000	146.0000	77.8000	7.78E+01nc
Lead Phosphate	1500000.0000	1500000.0000	751000.0000	-	-	-	-	-	-	7.51E+05ca
Lead acetate	60800.0000	790000.0000	56500.0000	-	-	-	-	-	-	5.65E+04ca
Lead subacetate	336000.0000	-	336000.0000	-	-	-	-	-	-	3.36E+05ca
Lewisite	-	-	-	-	-	-	52.1000	4.8100	4.4000	4.40E+00nc
Linuron	-	-	-	-	-	-	20900.0000	1080.0000	1030.0000	1.03E+03nc
Lithium	-	-	-	-	-	-	20900.0000	18200.0000	9730.0000	9.73E+03nc
Lithium Perchlorate	-	-	-	-	-	-	7300.0000	6380.0000	3400.0000	3.40E+03nc
Lutetium	-	-	-	-	-	-	4170000.0000	15400000.0000	3280000.0000	3.28E+06nc
MCPA	-	-	-	-	-	-	5210.0000	161.0000	156.0000	1.56E+02nc
MCPB	-	-	-	-	-	-	1040000.0000	29900.0000	29100.0000	2.91E+04nc
MCPP	-	-	-	-	-	-	104000.0000	3890.0000	3750.0000	3.75E+03nc
Malathion	-	-	-	-	-	-	209000.0000	59500.0000	46300.0000	4.63E+04nc
Maleic Anhydride	-	-	-	-	-	-	1040000.0000	148000.0000	130000.0000	1.30E+05nc
Maleic Hydrazide	-	-	-	-	-	-	5210000.0000	36500000.0000	4560000.0000	4.56E+06nc
Malononitrile	-	-	-	-	-	-	10400.0000	30500.0000	7770.0000	7.77E+03nc
Mancozeb	-	-	-	-	-	-	313000.0000	26900.0000	24700.0000	2.47E+04nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Maneb	-	-	-	-	-	-	521000.0000	196000.0000	143000.0000	1.43E+05nc
Manganese (Non-diet)	-	-	-	-	-	-	250000.0000	8750.0000	8460.0000	8.46E+03nc
Mephosfolan	-	-	-	-	-	-	9390.0000	13600.0000	5550.0000	5.55E+03nc
Mepiquat Chloride	-	-	-	-	-	-	313000.0000	-	313000.0000	3.13E+05nc
Mercaptobenzothiazole, 2-	1160000.0000	110000.0000	101000.0000	-	-	-	417000.0000	34700.0000	32000.0000	3.20E+04nc
Mercuric Chloride	-	-	-	-	-	-	20900.0000	1280.0000	1200.0000	1.20E+03nc
Mercury (elemental)	-	-	-	-	-	-	-	-	-	-
Merphos	-	-	-	-	-	-	3130.0000	-	3130.0000	3.13E+03nc
Merphos Oxide	-	-	-	-	-	-	31300.0000	54.1000	54.0000	5.40E+01nc
Metalaxyl	-	-	-	-	-	-	626000.0000	347000.0000	223000.0000	2.23E+05nc
Methacrylonitrile	-	-	-	-	-	-	521000.0000	219000.0000	154000.0000	1.54E+05nc
Methamidophos	-	-	-	-	-	-	521.0000	4630.0000	469.0000	4.69E+02nc
Methanol	-	-	-	-	-	-	52100000.0000	13200000.0000	37400000.0000	3.74E+07nc
Methidathion	-	-	-	-	-	-	15600.0000	4760.0000	3650.0000	3.65E+03nc
Methomyl	-	-	-	-	-	-	261000.0000	332000.0000	146000.0000	1.46E+05nc
Methoxy-5-nitroaniline, 2-	261000.0000	106000.0000	75300.0000	-	-	-	-	-	-	7.53E+04ca
Methoxychlor	-	-	-	-	-	-	52100.0000	320.0000	318.0000	3.18E+02nc
Methoxyethanol Acetate, 2-	-	-	-	-	-	-	313000.0000	557000.0000	200000.0000	2.00E+05nc
Methoxyethanol, 2-	-	-	-	-	-	-	209000.0000	889000.0000	169000.0000	1.69E+05nc
Methyl Acetate	-	-	-	-	-	-	10400000.0000	10100000.0000	5140000.0000	5.14E+06nc
Methyl Acrylate	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (2-Butanone)	-	-	-	-	-	-	20900000.0000	16800000.0000	9290000.0000	9.29E+06nc
Methyl Hydrazine	-	-	-	-	-	-	10400.0000	48100.0000	8570.0000	8.57E+03nc
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	-	-	-	-	-	-	8340000.0000	1930000.0000	1570000.0000	1.57E+06nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Methyl Isocyanate	-	-	-	-	-	-	-	-	-	
Methyl Mercury	-	-	-	-	-	-	15600000.0000	13700000.0000	7300000.0000	7.30E+06nc
Methyl Methacrylate	-	-	-	-	-	-	8340000.0000	1740000.0000	1440000.0000	1.44E+05nc
Methyl Parathion	-	-	-	-	-	-	7300.0000	627.0000	578.0000	5.78E+02nc
Methyl Phosphonic Acid	-	-	-	-	-	-	626000.0000	4710000.0000	552000.0000	5.52E+05nc
Methyl Styrene (Mixed Isomers)	-	-	-	-	-	-	62600.0000	235.0000	234.0000	2.34E+02nc
Methyl methanesulfonate	1290000.0000	768000.0000	110000.0000	-	-	-	-	-	-	1.10E+05ca
Methyl tert-Butyl Ether (MTBE)	7100000.0000	2900000.0000	2060000.0000	-	-	-	3130000.0000	1120000.0000	825000.0000	8.25E+05nc
Methyl-1,4-benzenediamine dihydrochloride, 2-	-	-	-	-	-	-	31300.0000	3070000.0000	31000.0000	3.10E+04nc
Methyl-2-Pentanol, 4-	-	-	-	-	-	-	-	-	-	
Methyl-5-Nitroaniline, 2-	1420000.0000	271000.0000	228000.0000	-	-	-	209000.0000	34800.0000	29900.0000	2.99E+04nc
Methyl-N-nitro-N-nitrosoguanidine, N-	1540.0000	19900.0000	1430.0000	-	-	-	-	-	-	1.43E+03ca
Methylaniline Hydrochloride, 2-	98300.0000	7000000.0000	96900.0000	-	-	-	-	-	-	9.69E+04ca
Methylarsonic acid	-	-	-	-	-	-	1040000.0000	16500000.0000	981000.0000	9.81E+05nc
Methylbenzene,1-4-diamine monohydrochloride, 2-	-	-	-	-	-	-	20900.0000	-	20900.0000	2.09E+04nc
Methylbenzene-1,4-diamine sulfate, 2-	128000.0000	-	128000.0000	-	-	-	31300.0000	-	31300.0000	3.13E+04nc
Methylcholanthrene, 3-	581.0000	-	581.0000	-	-	-	-	-	-	5.81E+02ca
Methylcyclopentane	-	-	-	-	-	-	4170000.0000	41500.0000	41100.0000	4.11E+04nc
Methylene Chloride	6390000.0000	1570000.0000	1260000.0000	-	-	-	626000.0000	135000.0000	111000.0000	1.11E+05nc
Methylene-bis(2-chloroaniline), 4,4'-	128000.0000	2870.0000	2810.0000	-	-	-	20900.0000	410.0000	402.0000	4.02E+02nc
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	278000.0000	2550.0000	2530.0000	-	-	-	-	-	-	2.53E+03ca
Methylenebisbenzenamine, 4,4'-	7980.0000	3450.0000	2410.0000	-	-	-	834000.0000	315000.0000	229000.0000	2.41E+03ca*
Methylenediphenyl Diisocyanate	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	441000.0000	4080.0000	4050.0000	-	-	-	730000.0000	5920.0000	5870.0000	4.05E+03ca**
Methylnaphthalene, 2-	-	-	-	-	-	-	41700.0000	343.0000	340.0000	3.40E+02nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Methylstyrene, Alpha-	-	-	-	-	-	-	7300000.0000	84400.0000	83400.0000	8.34E+04nc
Metolachlor	-	-	-	-	-	-	1560000.0000	144000.0000	132000.0000	1.32E+05nc
Metribuzin	-	-	-	-	-	-	261000.0000	96800.0000	70600.0000	7.06E+04nc
Metsulfuron-methyl	-	-	-	-	-	-	2610000.0000	1320000.0000	877000.0000	8.77E+05nc
Mineral oils	-	-	-	-	-	-	313000000.0000	-	313000000.0000	3.13E+08nc
Mirex	710.0000	-	710.0000	-	-	-	2090.0000	-	2090.0000	7.10E+02ca**
Molinate	-	-	-	-	-	-	20900.0000	620.0000	602.0000	6.02E+02nc
Molybdenum	-	-	-	-	-	-	52100.0000	45600.0000	24300.0000	2.43E+04nc
Monoaluminum phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Monoammonium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Monobutyltin Compounds	-	-	-	-	-	-	-	-	-	-
Monocalcium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Monochloramine	-	-	-	-	-	-	1040000.0000	912000.0000	486000.0000	4.86E+05nc
Monomagnesium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Monomethylaniline	-	-	-	-	-	-	209000.0000	30700.0000	26700.0000	2.67E+04nc
Monopotassium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Monosodium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Myclobutanil	-	-	-	-	-	-	261000.0000	25700.0000	23400.0000	2.34E+04nc
N,N'-Diphenyl-1,4-benzenediamine	-	-	-	-	-	-	3130.0000	48.3000	47.6000	4.76E+01nc
Naled	-	-	-	-	-	-	20900.0000	37000.0000	13300.0000	1.33E+04nc
Naphtha, High Flash Aromatic (HFAN)	-	-	-	-	-	-	3130000.0000	-	3130000.0000	3.13E+06nc
Naphthalene	106000.0000	1970.0000	1930.0000	-	-	-	6260000.0000	101000.0000	99600.0000	1.93E+03ca*
Naphthylamine, 2-	7100.0000	671.0000	613.0000	-	-	-	-	-	-	6.13E+02ca
Napropamide	-	-	-	-	-	-	1250000.0000	58600.0000	56000.0000	5.60E+04nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Neodymium Chloride (Stable, Nonradioactive)	-	-	-	-	-	-	8340000.0000	7290000.0000	3890000.0000	3.89E+06nc
Nickel Acetate	14000.0000	478000.0000	13600.0000	-	-	-	115000.0000	3410000.0000	111000.0000	1.36E+04ca**
Nickel Carbonate	14000.0000	855000.0000	13800.0000	-	-	-	115000.0000	6110000.0000	113000.0000	1.38E+04ca**
Nickel Carbonyl	14000.0000	-	14000.0000	-	-	-	115000.0000	-	115000.0000	1.40E+04ca**
Nickel Hydroxide	14000.0000	561.0000	539.0000	-	-	-	115000.0000	4010.0000	3880.0000	5.39E+02ca**
Nickel Oxide	14000.0000	561.0000	539.0000	-	-	-	115000.0000	4010.0000	3880.0000	5.39E+02ca**
Nickel Refinery Dust	14000.0000	2800.0000	2340.0000	-	-	-	115000.0000	20100.0000	17100.0000	2.34E+03ca**
Nickel Soluble Salts	-	-	-	-	-	-	209000.0000	36500.0000	31000.0000	3.10E+04nc
Nickel Subulfide	7510.0000	1500.0000	1250.0000	-	-	-	115000.0000	20100.0000	17100.0000	1.25E+03ca*
Nickelocene	14000.0000	-	14000.0000	-	-	-	115000.0000	-	115000.0000	1.40E+04ca**
Nitrate (measured as nitrogen)	-	-	-	-	-	-	41700000.0000	36500000.0000	19500000.0000	1.95E+07nc
Nitrite (measured as nitrogen)	-	-	-	-	-	-	1040000.0000	912000.0000	486000.0000	4.86E+05nc
Nitroaniline, 2-	-	-	-	-	-	-	1040000.0000	157000.0000	137000.0000	1.37E+05nc
Nitroaniline, 3-	-	-	-	-	-	-	10400.0000	3260.0000	2490.0000	2.49E+03nc
Nitroaniline, 4-	639000.0000	221000.0000	164000.0000	-	-	-	104000.0000	31600.0000	24300.0000	2.43E+04nc
Nitrobenzene	-	-	-	-	-	-	52100.0000	6790.0000	6010.0000	6.01E+03nc
Nitrocellulose	-	-	-	-	-	-	31300000000.0000	-	31300000000.0000	3.13E+10nc
Nitrofurantoin	-	-	-	-	-	-	7300000.0000	87100000.0000	6740000.0000	6.74E+06nc
Nitrofurazone	9830.0000	34000.0000	7630.0000	-	-	-	-	-	-	7.63E+03ca
Nitroglycerin	751000.0000	390000.0000	257000.0000	-	-	-	1040.0000	473.0000	326.0000	3.26E+02nc
Nitroguanidine	-	-	-	-	-	-	1040000.0000	7230000.0000	911000.0000	9.11E+05nc
Nitromethane	-	-	-	-	-	-	-	-	-	-
Nitrophenol, 2-	-	-	-	-	-	-	-	-	-	-
Nitropropane, 2-	-	-	-	-	-	-	10400.0000	3820.0000	2790.0000	2.79E+03nc
Nitropyrene, 4-	10600.0000	57.3000	57.0000	-	-	-	-	-	-	5.70E+01ca
Nitroso-N-ethylurea, N-	473.0000	780.0000	295.0000	-	-	-	-	-	-	2.95E+02ca
Nitroso-N-methylurea, N-	106.0000	225.0000	72.3000	-	-	-	-	-	-	7.23E+01ca

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Nitroso-di-N-butylamine, N-	2370.0000	152.0000	143.0000	-	-	-	-	-	-	1.43E+02ca
Nitroso-di-N-propylamine, N-	1830.0000	614.0000	459.0000	-	-	-	-	-	-	4.59E+02ca
Nitrosodiethanolamine, N-	4560.0000	89900.0000	4340.0000	-	-	-	-	-	-	4.34E+03ca
Nitrosodiethylamine, N-	85.2000	81.7000	41.7000	-	-	-	-	-	-	4.17E+01ca
Nitrosodimethylamine, N-	250.0000	878.0000	195.0000	-	-	-	83.4000	256.0000	62.9000	6.29E+01nc
Nitrosodiphenylamine, N-	2610000.0000	108000.0000	104000.0000	-	-	-	-	-	-	1.04E+05ca
Nitrosomethylethylamine, N-	581.0000	937.0000	358.0000	-	-	-	-	-	-	3.58E+02ca
Nitrosomorpholine [N-]	1910.0000	8670.0000	1560.0000	-	-	-	-	-	-	1.56E+03ca
Nitrosopiperidine [N-]	1360.0000	1780.0000	770.0000	-	-	-	-	-	-	7.70E+02ca
Nitrosopyrrolidine, N-	6080.0000	15900.0000	4400.0000	-	-	-	-	-	-	4.40E+03ca
Nitrotoluene, m-	-	-	-	-	-	-	10400.0000	633.0000	596.0000	5.96E+02nc
Nitrotoluene, o-	58100.0000	5030.0000	4630.0000	-	-	-	104000.0000	7910.0000	7350.0000	4.63E+03ca**
Nitrotoluene, p-	798000.0000	62400.0000	57800.0000	-	-	-	41700.0000	2850.0000	2670.0000	2.67E+03nc
Nonane, n-	-	-	-	-	-	-	31300.0000	-	31300.0000	3.13E+04nc
Norflurazon	-	-	-	-	-	-	156000.0000	41000.0000	32500.0000	3.25E+04nc
OCDD	328.0000	-	328.0000	-	-	-	24.3000	-	24.3000	2.43E+01nc
OCDF	328.0000	-	328.0000	-	-	-	24.3000	-	24.3000	2.43E+01nc
Octabromodiphenyl Ether	-	-	-	-	-	-	31.3000	-	31.3000	3.13E+01nc
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	-	-	-	-	-	-	521000.0000	346000.0000	453000.0000	4.53E+05nc
Octamethylpyrophosphoramidate	-	-	-	-	-	-	20900.0000	774000.0000	20300.0000	2.03E+04nc
Octyl Phthalate, di-N-	-	-	-	-	-	-	1040000.0000	-	1040000.0000	1.04E+06nc
Oryzalin	1640000.0000	81100.0000	77300.0000	-	-	-	1460000.0000	63200.0000	60500.0000	6.05E+04nc
Oxadiazon	-	-	-	-	-	-	52100.0000	490.0000	486.0000	4.86E+02nc
Oxamyl	-	-	-	-	-	-	261000.0000	2760000.0000	238000.0000	2.38E+05nc
Oxyfluorfen	175000.0000	2310.0000	2280.0000	-	-	-	313000.0000	3630.0000	3590.0000	2.28E+03ca**
Paclbutrazol	-	-	-	-	-	-	136000.0000	9380.0000	8780.0000	8.78E+03nc
Paraquat Dichloride	-	-	-	-	-	-	46900.0000	-	46900.0000	4.69E+04nc
Parathion	-	-	-	-	-	-	93900.0000	2430.0000	2370.0000	2.37E+03nc
PeCDF, 1,2,3,7,8-	3.2800	-	3.2800	-	-	-	0.2430	-	0.2430	2.43E-01nc
PeCDF, 2,3,4,7,8-	0.3280	-	0.3280	-	-	-	0.3130	-	0.3130	3.13E-01nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Pebulate	-	-	-	-	-	-	521000.0000	6760.0000	6680.0000	6.68E+03nc
Pendimethalin	-	-	-	-	-	-	417000.0000	1280.0000	1280.0000	1.28E+03nc
Pentabromodiphenyl Ether	-	-	-	-	-	-	209000.0000	-	209000.0000	2.09E+05nc
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	-	-	-	-	-	-	1040.0000	-	1040.0000	1.04E+03nc
Pentachlorobenzene	-	-	-	-	-	-	83400.0000	214.0000	214.0000	2.14E+02nc
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	3280.0000	-	3280.0000	-	-	-	243.0000	-	243.0000	2.43E+02nc
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	3280.0000	-	3280.0000	-	-	-	243.0000	-	243.0000	2.43E+02nc
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	3280.0000	-	3280.0000	-	-	-	243.0000	-	243.0000	2.43E+02nc
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	3280.0000	-	3280.0000	-	-	-	243.0000	-	243.0000	2.43E+02nc
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	0.9830	-	0.9830	-	-	-	0.0730	-	0.0730	7.30E-02nc
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	0.0983	-	0.0983	-	-	-	0.0073	-	0.0073	7.30E-03nc
Pentachloroethane	142000.0000	5290.0000	5100.0000	-	-	-	-	-	-	5.10E+03ca
Pentachloronitrobenzene	49100.0000	434.0000	430.0000	-	-	-	31300.0000	242.0000	240.0000	2.40E+02nc
Pentachlorophenol	31900.0000	112.0000	111.0000	-	-	-	10400.0000	32.0000	31.9000	3.19E+01nc
Pentaerythritol tetranitrate (PETN)	3190000.0000	918000.0000	713000.0000	-	-	-	20900.0000	5250.0000	4190.0000	4.19E+03nc
Pentane, n-	-	-	-	-	-	-	-	-	-	-
Perchlorate and Perchlorate Salts	-	-	-	-	-	-	7300.0000	6380.0000	3400.0000	3.40E+03nc
Perfluorobutane sulfonic acid (PFBS)	-	-	-	-	-	-	2090000.0000	-	2090000.0000	2.09E+06nc
Perfluorobutanesulfonate	-	-	-	-	-	-	2090000.0000	-	2090000.0000	2.09E+06nc
Perfluorooctane sulfonic acid (PFOS)	-	-	-	-	-	-	209.0000	-	209.0000	2.09E+02nc
Perfluorooctanesulfonate	-	-	-	-	-	-	209.0000	-	209.0000	2.09E+02nc
Perfluorooctanoic acid (PFOA)	183000.0000	-	183000.0000	-	-	-	209.0000	-	209.0000	2.09E+02nc
Permethrin	-	-	-	-	-	-	2090000.0000	-	2090000.0000	2.09E+06nc
Phenacetin	5810000.0000	2200000.0000	1590000.0000	-	-	-	-	-	-	1.59E+06ca
Phenmedipham	-	-	-	-	-	-	2500000.0000	99500.0000	95700.0000	9.57E+04nc
Phenol	-	-	-	-	-	-	6260000.0000	1080000.0000	923000.0000	9.23E+05nc
Phenol, 2-(1-methylethoxy)-, methylcarbamate	-	-	-	-	-	-	41700.0000	19100.0000	13100.0000	1.31E+04nc
Phenothiazine	-	-	-	-	-	-	52100.0000	404.0000	401.0000	4.01E+02nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Phenyl Isothiocyanate	-	-	-	-	-	-	20900.0000	368.0000	362.0000	3.62E+02nc
Phenylenediamine, m-	-	-	-	-	-	-	626000.0000	1930000.0000	473000.0000	4.73E+05nc
Phenylenediamine, o-	106000.0000	180000.0000	67000.0000	-	-	-	41700.0000	61900.0000	24900.0000	2.49E+04nc
Phenylenediamine, p-	-	-	-	-	-	-	104000.0000	307000.0000	77900.0000	7.79E+04nc
Phenylmercuric Acetate	-	-	-	-	-	-	834.0000	3100.0000	657.0000	6.57E+02nc
Phenylphenol, 2-	6590000.0000	235000.0000	227000.0000	-	-	-	-	-	-	2.27E+05ca
Phorate	-	-	-	-	-	-	2090.0000	66.9000	64.9000	6.49E+01nc
Phosgene	-	-	-	-	-	-	-	-	-	-
Phosmet	-	-	-	-	-	-	209000.0000	28700.0000	25300.0000	2.53E+04nc
Phosphine	-	-	-	-	-	-	3130.0000	2730.0000	1460.0000	1.46E+03nc
Phosphoric Acid	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Phosphorus, White	-	-	-	-	-	-	2090.0000	1820.0000	973.0000	9.73E+02nc
Phthalic Acid, P-	-	-	-	-	-	-	10400000.0000	1620000.0000	1400000.0000	1.40E+06nc
Phthalic Anhydride	-	-	-	-	-	-	20900000.0000	5070000.0000	4080000.0000	4.08E+06nc
Picloram	-	-	-	-	-	-	730000.0000	236000.0000	179000.0000	1.79E+05nc
Picramic Acid (2-Amino-4,6-dinitrophenol)	-	-	-	-	-	-	1040.0000	1090.0000	533.0000	5.33E+02nc
Picric Acid (2,4,6-Trinitrophenol)	-	-	-	-	-	-	104000.0000	74800.0000	43600.0000	4.36E+04nc
Pirimiphos, Methyl	-	-	-	-	-	-	730.0000	11.8000	11.6000	1.16E+01nc
Polybrominated Biphenyls	426.0000	-	426.0000	-	-	-	730.0000	-	730.0000	4.26E+02ca**
Polychlorinated Biphenyls (low risk)	31900.0000	-	31900.0000	-	-	-	-	-	-	3.19E+04ca
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	-	-	-	-	-	-	-	-	-	-
Polyphosphoric acid	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Potassium Cyanide	-	-	-	-	-	-	521000.0000	228000.0000	159000.0000	1.59E+05nc
Potassium Perchlorate	-	-	-	-	-	-	7300.0000	3190.0000	2220.0000	2.22E+03nc
Potassium Perfluorobutane Sulfonate	-	-	-	-	-	-	2090000.0000	-	2090000.0000	2.09E+06nc
Potassium Perfluorooctane Sulfonate	-	-	-	-	-	-	209.0000	-	209.0000	2.09E+02nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Potassium Silver Cyanide	-	-	-	-	-	-	2090000.0000	36500.0000	35800.0000	3.58E+04nc
Potassium tripolyphosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Praseodymium Chloride (Stable, Nonradioactive)	-	-	-	-	-	-	8340000.0000	7290000.0000	3890000.0000	3.89E+06nc
Prochloraz	85200.0000	2910.0000	2810.0000	-	-	-	93900.0000	2800.0000	2720.0000	2.72E+03nc
Profluralin	-	-	-	-	-	-	62600.0000	181.0000	180.0000	1.80E+02nc
Prometon	-	-	-	-	-	-	156000.0000	8630.0000	8180.0000	8.18E+03nc
Prometryn	-	-	-	-	-	-	417000.0000	12800.0000	12400.0000	1.24E+04nc
Pronamide	-	-	-	-	-	-	782000.0000	29800.0000	28700.0000	2.87E+04nc
Propachlor	-	-	-	-	-	-	1360000.0000	230000.0000	197000.0000	1.97E+05nc
Propanil	-	-	-	-	-	-	52100.0000	2420.0000	2310.0000	2.31E+03nc
Propargite	66500.0000	544.0000	539.0000	-	-	-	417000.0000	2980.0000	2960.0000	5.39E+02ca**
Propargyl Alcohol	-	-	-	-	-	-	20900.0000	38800.0000	13600.0000	1.36E+04nc
Propazine	-	-	-	-	-	-	209000.0000	13000.0000	12200.0000	1.22E+04nc
Propham	-	-	-	-	-	-	209000.0000	14600.0000	13600.0000	1.36E+04nc
Propiconazole	-	-	-	-	-	-	1040000.0000	44600.0000	42800.0000	4.28E+04nc
Propionaldehyde	-	-	-	-	-	-	-	-	-	-
Propyl benzene	-	-	-	-	-	-	1040000.0000	9210.0000	9130.0000	9.13E+03nc
Propylene	-	-	-	-	-	-	-	-	-	-
Propylene Glycol	-	-	-	-	-	-	209000000.0000	112000000.0000	176000000.0000	1.76E+08nc
Propylene Glycol Dinitrate	-	-	-	-	-	-	-	-	-	-
Propylene Glycol Monomethyl Ether	-	-	-	-	-	-	73000000.0000	237000000.0000	55800000.0000	5.58E+07nc
Propylene Oxide	53200.0000	61900.0000	28600.0000	-	-	-	-	-	-	2.86E+04ca
Pyrene	-	-	-	-	-	-	3130000.0000	8240.0000	8220.0000	8.22E+03nc
Pyridine	-	-	-	-	-	-	104000.0000	52500.0000	34900.0000	3.49E+04nc
Quinalphos	-	-	-	-	-	-	5210.0000	55.8000	55.2000	5.52E+01nc
Quinoline	4260.0000	513.0000	458.0000	-	-	-	-	-	-	4.58E+02ca
Quizalofop-ethyl	-	-	-	-	-	-	93900.0000	2080.0000	2030.0000	2.03E+03nc
Resmethrin	-	-	-	-	-	-	313000.0000	413.0000	413.0000	4.13E+02nc

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LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Ronnel	-	-	-	-	-	-	521000.0000	3720.0000	3690.0000	3.69E+03nc
Rotenone	-	-	-	-	-	-	41700.0000	1400.0000	1350.0000	1.35E+03nc
Rubidium	-	-	-	-	-	-	41700.0000	36500.0000	19500.0000	1.95E+04nc
Rubidium Chloride	-	-	-	-	-	-	52100.0000	45600.0000	24300.0000	2.43E+04nc
Rubidium Hydroxide	-	-	-	-	-	-	41700.0000	36500.0000	19500.0000	1.95E+04nc
Rubidium Iodide	-	-	-	-	-	-	93900.0000	82000.0000	43800.0000	4.38E+04nc
Safrole	58100.0000	3680.0000	3460.0000	-	-	-	-	-	-	3.46E+03ca
Samarium Chloride (Stable, Nonradioactive)	-	-	-	-	-	-	9390000.0000	8200000.0000	4380000.0000	4.38E+06nc
Samarium Nitrate (Stable, Nonradioactive)	-	-	-	-	-	-	417.0000	365.0000	195.0000	1.95E+02nc
Selenious Acid	-	-	-	-	-	-	52100.0000	45600.0000	24300.0000	2.43E+04nc
Selenium	-	-	-	-	-	-	52100.0000	45600.0000	24300.0000	2.43E+04nc
Selenium Sulfide	-	-	-	-	-	-	52100.0000	45600.0000	24300.0000	2.43E+04nc
Sethoxydim	-	-	-	-	-	-	1460000.0000	20700.0000	20400.0000	2.04E+04nc
Silica (crystalline, respirable)	-	-	-	-	-	-	-	-	-	
Silver	-	-	-	-	-	-	52100.0000	3040.0000	2870.0000	2.87E+03nc
Silver Cyanide	-	-	-	-	-	-	1040000.0000	36500.0000	35200.0000	3.52E+04nc
Simazine	106000.0000	19200.0000	16300.0000	-	-	-	52100.0000	8230.0000	7110.0000	7.11E+03nc
Sodium Acifluorfen	-	-	-	-	-	-	136000.0000	1140000.0000	121000.0000	1.21E+05nc
Sodium Azide	-	-	-	-	-	-	41700.0000	36500.0000	19500.0000	1.95E+04nc
Sodium Cyanide	-	-	-	-	-	-	521000.0000	456000.0000	243000.0000	2.43E+05nc
Sodium Diethyldithiocarbamate	47300.0000	1660000.0000	46000.0000	-	-	-	3130000.0000	9590000.0000	3030000.0000	4.60E+04ca*
Sodium Fluoride	-	-	-	-	-	-	521000.0000	456000.0000	243000.0000	2.43E+05nc
Sodium Fluoroacetate	-	-	-	-	-	-	209.0000	-	209.0000	2.09E+02nc
Sodium Metavanadate	-	-	-	-	-	-	104000.0000	91200.0000	48600.0000	4.86E+04nc
Sodium Perchlorate	-	-	-	-	-	-	7300.0000	6380.0000	3400.0000	3.40E+03nc
Sodium Tungstate	-	-	-	-	-	-	83400.0000	72900.0000	38900.0000	3.89E+04nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Sodium Tungstate Dihydrate	-	-	-	-	-	-	83400.0000	72900.0000	38900.0000	3.89E+04nc
Sodium acid pyrophosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Sodium aluminum phosphate (acidic)	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Sodium aluminum phosphate (anhydrous)	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Sodium aluminum phosphate (tetrahydrate)	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Sodium hexametaphosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Sodium polyphosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Sodium trimetaphosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Sodium tripolyphosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Stirofos (Tetrachlorovinphos)	532000.0000	40600.0000	37700.0000	-	-	-	313000.0000	20900.0000	19600.0000	1.96E+04nc
Strontium, Stable	-	-	-	-	-	-	20900000.0000	18200000.0000	9730000.0000	9.73E+06nc
Strychnine	-	-	-	-	-	-	31300.0000	17700.0000	11300.0000	1.13E+04nc
Styrene	-	-	-	-	-	-	2090000.0000	44400.0000	43500.0000	4.35E+04nc
Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)	-	-	-	-	-	-	83400.0000	3440.0000	3300.0000	3.30E+03nc
Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)	-	-	-	-	-	-	83400.0000	3440.0000	3300.0000	3.30E+03nc
Sulfolane	-	-	-	-	-	-	104000.0000	717000.0000	91000.0000	9.10E+04nc
Sulfonylbis(4-chlorobenzene), 1,1'-	-	-	-	-	-	-	41700.0000	953.0000	931.0000	9.31E+02nc
Sulfur Mustard	-	-	-	-	-	-	730.0000	102.0000	89.5000	8.95E+01nc
Sulfur Trioxide	-	-	-	-	-	-	-	-	-	
Sulfuric Acid	-	-	-	-	-	-	-	-	-	
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	511000.0000	5010.0000	4960.0000	-	-	-	1040000.0000	8950.0000	8870.0000	4.96E+03ca**

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
TCDD, 2,3,7,8-	0.0983	-	0.0983	-	-	-	0.2090	-	0.2090	9.83E-02ca**
TCDF, 2,3,7,8-	0.9830	-	0.9830	-	-	-	0.0730	-	0.0730	7.30E-02nc
TCMTB	-	-	-	-	-	-	3130000.0000	130000.0000	125000.0000	1.25E+05nc
Tebuthiuron	-	-	-	-	-	-	730000.0000	257000.0000	190000.0000	1.90E+05nc
Temephos	-	-	-	-	-	-	2090000.0000	-	2090000.0000	2.09E+06nc
Terbacil	-	-	-	-	-	-	136000.0000	38000.0000	29700.0000	2.97E+04nc
Terbufos	-	-	-	-	-	-	261.0000	2.4600	2.4400	2.44E+00nc
Terbutryn	-	-	-	-	-	-	10400.0000	225.0000	220.0000	2.20E+02nc
Tert-Butyl Acetate	2560000.0000	406000.0000	350000.0000	-	-	-	-	-	-	3.50E+05ca
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	-	-	-	-	-	-	1040.0000	-	1040.0000	1.04E+03nc
Tetrachlorobenzene, 1,2,4,5-	-	-	-	-	-	-	313.0000	1.3000	1.2900	1.29E+00nc
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	983.0000	-	983.0000	-	-	-	73.0000	-	73.0000	7.30E+01nc
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	328.0000	-	328.0000	-	-	-	24.3000	-	24.3000	2.43E+01nc
Tetrachloroethane, 1,1,1,2-	491000.0000	21700.0000	20800.0000	-	-	-	939000.0000	36300.0000	35000.0000	2.08E+04ca**
Tetrachloroethane, 1,1,2,2-	63900.0000	6380.0000	5800.0000	-	-	-	521000.0000	45600.0000	41900.0000	5.80E+03ca**
Tetrachloroethylene	6080000.0000	132000.0000	129000.0000	-	-	-	83400.0000	1590.0000	1560.0000	1.56E+03nc
Tetrachlorophenol, 2,3,4,6-	-	-	-	-	-	-	3130000.0000	21400.0000	21300.0000	2.13E+04nc
Tetrachlorotoluene, p- alpha, alpha, alpha-	798.0000	5.3700	5.3400	-	-	-	6260.0000	36.8000	36.6000	5.34E+00ca**
Tetraethyl Dithiopyrophosphate	-	-	-	-	-	-	52100.0000	1300.0000	1270.0000	1.27E+03nc
Tetraethyl Lead	-	-	-	-	-	-	1.0400	0.0205	0.0201	2.01E-02nc
Tetrafluoroethane, 1,1,1,2-	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran	-	-	-	-	-	-	9390000.0000	5810000.0000	3590000.0000	3.59E+06nc
Tetramethylcyclohexane	-	-	-	-	-	-	31300000.0000	-	31300000.0000	3.13E+07nc
Tetrapotassium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Tetrasodium pyrophosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Tetryl (TrinitrophenylmethylNitramine)	-	-	-	-	-	-	209000.0000	135000.0000	81900.0000	8.19E+04nc
Thallic Oxide	-	-	-	-	-	-	209.0000	182.0000	97.3000	9.73E+01nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Thallium (I) Nitrate	-	-	-	-	-	-	521.0000	456.0000	243.0000	2.43E+02nc
Thallium (Soluble Salts)	-	-	-	-	-	-	417.0000	365.0000	195.0000	1.95E+02nc
Thallium Acetate	-	-	-	-	-	-	521.0000	4660.0000	469.0000	4.69E+02nc
Thallium Carbonate	-	-	-	-	-	-	521.0000	464000.0000	521.0000	5.21E+02nc
Thallium Chloride	-	-	-	-	-	-	521.0000	456.0000	243.0000	2.43E+02nc
Thallium Selenite	-	-	-	-	-	-	104.0000	91.2000	48.6000	4.86E+01nc
Thallium Sulfate	-	-	-	-	-	-	521.0000	456.0000	243.0000	2.43E+02nc
Thifensulfuron-methyl	-	-	-	-	-	-	448000.0000	631000.0000	262000.0000	2.62E+05nc
Thiobencarb	-	-	-	-	-	-	104000.0000	4200.0000	4040.0000	4.04E+03nc
Thiocyanates	-	-	-	-	-	-	6260.0000	5470.0000	2920.0000	2.92E+03nc
Thiocyanic Acid	-	-	-	-	-	-	6260.0000	5470.0000	2920.0000	2.92E+03nc
Thiodiglycol	-	-	-	-	-	-	7300000.0000	41400000.0000	6210000.0000	6.21E+06nc
Thiofanox	-	-	-	-	-	-	3130.0000	238.0000	221.0000	2.21E+02nc
Thiophanate, Methyl	1100000.0000	1690000.0000	666000.0000	-	-	-	282000.0000	377000.0000	161000.0000	1.61E+05nc
Thiram	-	-	-	-	-	-	62600.0000	26200.0000	18400.0000	1.84E+04nc
Tin	-	-	-	-	-	-	3130000.0000	2730000.0000	1460000.0000	1.46E+06nc
Titanium Tetrachloride	-	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	8340000.0000	215000.0000	210000.0000	2.10E+05nc
Toluene-2,4-diisocyanate	328000.0000	470.0000	470.0000	-	-	-	-	-	-	4.70E+02ca
Toluene-2,5-diamine	71000.0000	138000.0000	46900.0000	-	-	-	20900.0000	35500.0000	13100.0000	1.31E+04nc
Toluene-2,6-diisocyanate	328000.0000	4580.0000	4520.0000	-	-	-	-	-	-	4.52E+03ca
Toluic Acid, p-	-	-	-	-	-	-	521000.0000	41000.0000	38000.0000	3.80E+04nc
Toluidine, o- (Methylaniline, 2-)	798000.0000	225000.0000	175000.0000	-	-	-	209000.0000	51300.0000	41200.0000	4.12E+04nc
Toluidine, p-	426000.0000	108000.0000	86000.0000	-	-	-	41700.0000	9240.0000	7570.0000	7.57E+03nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Total Petroleum Hydrocarbons (Aliphatic High)	-	-	-	-	-	-	313000000.0000	-	313000000.0000	3.13E+08nc
Total Petroleum Hydrocarbons (Aliphatic Low)	-	-	-	-	-	-	3130000.0000	16300.0000	16200.0000	1.62E+04nc
Total Petroleum Hydrocarbons (Aliphatic Medium)	-	-	-	-	-	-	1040000.0000	-	1040000.0000	1.04E+06nc
Total Petroleum Hydrocarbons (Aromatic High)	-	-	-	-	-	-	4170000.0000	-	4170000.0000	4.17E+06nc
Total Petroleum Hydrocarbons (Aromatic Low)	-	-	-	-	-	-	104000.0000	5550.0000	5270.0000	5.27E+03nc
Total Petroleum Hydrocarbons (Aromatic Medium)	-	-	-	-	-	-	41700.0000	458.0000	453.0000	4.53E+02nc
Toxaphene	11600.0000	-	11600.0000	-	-	-	3130.0000	-	3130.0000	3.13E+03nc
Toxaphene, Weathered	-	-	-	-	-	-	313.0000	-	313.0000	3.13E+02nc
Tralomethrin	-	-	-	-	-	-	78200.0000	-	78200.0000	7.82E+04nc
Tri-n-butyltin	-	-	-	-	-	-	3130.0000	53.8000	52.9000	5.29E+01nc
Triacetin	-	-	-	-	-	-	834000000.0000	291000000.0000	648000000.0000	6.48E+08nc
Triadimefon	-	-	-	-	-	-	355000.0000	42700.0000	38100.0000	3.81E+04nc
Triallate	178000.0000	1770.0000	1760.0000	-	-	-	136000.0000	1180.0000	1170.0000	1.17E+03nc
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Triasulfuron	-	-	-	-	-	-	104000.0000	325000.0000	79000.0000	7.90E+04nc
Tribenuron-methyl	-	-	-	-	-	-	83400.0000	27200.0000	20500.0000	2.05E+04nc
Tribromobenzene, 1,2,4-	-	-	-	-	-	-	521000.0000	4410.0000	4370.0000	4.37E+03nc
Tribromophenol, 2,4,6-	-	-	-	-	-	-	939000.0000	19900.0000	19500.0000	1.95E+04nc
Tributyl Phosphate	1420000.0000	27700.0000	27200.0000	-	-	-	313000.0000	5340.0000	5250.0000	5.25E+03nc
Tributyltin Compounds	-	-	-	-	-	-	3130.0000	-	3130.0000	3.13E+03nc
Tributyltin Oxide	-	-	-	-	-	-	3130.0000	519.0000	445.0000	4.45E+02nc
Tricalcium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Trichloro-1,2,2-trifluoroethane, 1,1,2-	-	-	-	-	-	-	313000000.0000	10000000.0000	9720000.0000	9.72E+06nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Trichloro-2'-hydroxydiphenylether	-	-	-	-	-	-	41700000.0000	258000.0000	257000.0000	2.57E+05nc
Trichloroacetic Acid	183000.0000	88000.0000	59400.0000	-	-	-	209000.0000	88000.0000	61900.0000	5.94E+04ca**
Trichloroaniline HCl, 2,4,6-	441000.0000	792000.0000	417000.0000	-	-	-	-	-	-	4.17E+05ca
Trichloroaniline, 2,4,6-	183000.0000	41400.0000	40500.0000	-	-	-	3130.0000	62.1000	60.9000	6.09E+01nc
Trichlorobenzene, 1,2,3-	-	-	-	-	-	-	83400.0000	676.0000	671.0000	6.71E+02nc
Trichlorobenzene, 1,2,4-	441000.0000	4270.0000	4230.0000	-	-	-	939000.0000	7950.0000	7890.0000	4.23E+03ca**
Trichloroethane, 1,1,1-	-	-	-	-	-	-	73000000.0000	4030000.0000	3820000.0000	3.82E+06nc
Trichloroethane, 1,1,2-	224000.0000	34800.0000	30100.0000	-	-	-	41700.0000	5660.0000	4980.0000	4.98E+03nc
Trichloroethylene	276000.0000	19000.0000	17800.0000	-	-	-	5210.0000	314.0000	296.0000	2.96E+02nc
Trichlorofluoromethane	-	-	-	-	-	-	3130000.0000	169000.0000	161000.0000	1.61E+05nc
Trichlorophenol, 2,4,5-	-	-	-	-	-	-	3130000.0000	46200.0000	45500.0000	4.55E+04nc
Trichlorophenol, 2,4,6-	1160000.0000	20500.0000	20100.0000	-	-	-	10400.0000	161.0000	159.0000	1.59E+02nc
Trichlorophenoxyacetic Acid, 2,4,5-	-	-	-	-	-	-	1040000.0000	47600.0000	45500.0000	4.55E+04nc
Trichlorophenoxypropionic acid, -2,4,5	-	-	-	-	-	-	83400.0000	1980.0000	1930.0000	1.93E+03nc
Trichloropropane, 1,1,2-	-	-	-	-	-	-	104000.0000	7170.0000	6710.0000	6.71E+03nc
Trichloropropane, 1,2,3-	426.0000	42.5000	38.7000	-	-	-	626000.0000	54700.0000	50300.0000	3.87E+01ca
Trichloropropene, 1,2,3-	-	-	-	-	-	-	313000.0000	12500.0000	12000.0000	1.20E+04nc
Tricresyl Phosphate (TCP)	-	-	-	-	-	-	417000.0000	2830.0000	2810.0000	2.81E+03nc
Tridiphane	-	-	-	-	-	-	31300.0000	140.0000	140.0000	1.40E+02nc
Triethylamine	-	-	-	-	-	-	-	-	-	-
Triethylene Glycol	-	-	-	-	-	-	20900000.0000	86200000.0000	20400000.0000	2.04E+07nc
Trifluoroethane, 1,1,1-	-	-	-	-	-	-	-	-	-	-
Trifluralin	1660000.0000	7310.0000	7280.0000	-	-	-	78200.0000	302.0000	300.0000	3.00E+02nc

**ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Trimagnesium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Trimethyl Phosphate	639000.0000	510000.0000	568000.0000	-	-	-	104000.0000	729000.0000	91200.0000	9.12E+04nc
Trimethylbenzene, 1,2,3-	-	-	-	-	-	-	417000.0000	3840.0000	3800.0000	3.80E+03nc
Trimethylbenzene, 1,2,4-	-	-	-	-	-	-	417000.0000	3990.0000	3960.0000	3.96E+03nc
Trimethylbenzene, 1,3,5-	-	-	-	-	-	-	417000.0000	5330.0000	5260.0000	5.26E+03nc
Trimethylpentene, 2,4,4-	-	-	-	-	-	-	1040000.0000	2820.0000	2820.0000	2.82E+03nc
Trinitrobenzene, 1,3,5-	-	-	-	-	-	-	5210.0000	4130.0000	2300.0000	2.30E+03nc
Trinitrotoluene, 2,4,6-	426000.0000	228000.0000	148000.0000	-	-	-	5210.0000	2440.0000	1660.0000	1.66E+03nc
Triphenylphosphine Oxide	-	-	-	-	-	-	209000.0000	20700.0000	18800.0000	1.88E+04nc
Tripotassium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Tris(1,3-Dichloro-2-propyl) Phosphate	-	-	-	-	-	-	521000.0000	44200.0000	40700.0000	4.07E+04nc
Tris(1-chloro-2-propyl)phosphate	-	-	-	-	-	-	1040000.0000	205000.0000	171000.0000	1.71E+05nc
Tris(2,3-dibromopropyl)phosphate	5550.0000	-	5550.0000	-	-	-	-	-	-	5.55E+03ca
Tris(2-chloroethyl)phosphate	639000.0000	637000.0000	319000.0000	-	-	-	209000.0000	182000.0000	97200.0000	9.72E+04nc
Tris(2-ethylhexyl)phosphate	3990000.0000	-	3990000.0000	-	-	-	1040000.0000	-	1040000.0000	1.04E+06nc
Trisbutoxyethyl Phosphate	-	-	-	-	-	-	939000.0000	55300.0000	52200.0000	5.22E+04nc
Trisodium phosphate	-	-	-	-	-	-	507000000.0000	443000000.0000	236000000.0000	2.36E+08nc
Tungsten	-	-	-	-	-	-	83400.0000	72900.0000	38900.0000	3.89E+04nc
Uranium	-	-	-	-	-	-	2090.0000	1820.0000	973.0000	9.73E+02nc
Urethane	12800.0000	27800.0000	8750.0000	-	-	-	-	-	-	8.75E+03ca
Vanadium Pentoxide	-	-	-	-	-	-	93900.0000	2130.0000	2090.0000	2.09E+03nc
Vanadium and Compounds	-	-	-	-	-	-	104000.0000	2370.0000	2320.0000	2.32E+03nc

ATTACHMENT 1 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - ADULT
LOWER DARBY CREEK AREA

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Vernolate	-	-	-	-	-	-	104000.0000	1330.0000	1320.0000	1.32E+03nc
Vinclozolin	-	-	-	-	-	-	12500.0000	961.0000	893.0000	8.93E+02nc
Vinyl Acetate	-	-	-	-	-	-	10400000.0000	5030000.0000	3390000.0000	3.39E+06nc
Vinyl Bromide	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	17700.0000	1930.0000	1740.0000	-	-	-	31300.0000	2980.0000	2720.0000	1.74E+03ca**
Warfarin	-	-	-	-	-	-	3130.0000	459.0000	400.0000	4.00E+02nc
Xylene, m-	-	-	-	-	-	-	2090000.0000	31900.0000	31400.0000	3.14E+04nc
Xylene, o-	-	-	-	-	-	-	2090000.0000	35600.0000	35000.0000	3.50E+04nc
Xylene, p-	-	-	-	-	-	-	2090000.0000	34200.0000	33600.0000	3.36E+04nc
Xylenes	-	-	-	-	-	-	4170000.0000	67500.0000	66400.0000	6.64E+04nc
Zinc Cyanide	-	-	-	-	-	-	521000.0000	760000.0000	309000.0000	3.09E+05nc
Zinc Phosphide	-	-	-	-	-	-	31300.0000	45600.0000	18600.0000	1.86E+04nc
Zinc and Compounds	-	-	-	-	-	-	3130000.0000	4560000.0000	1860000.0000	1.86E+06nc
Zineb	-	-	-	-	-	-	521000.0000	529000.0000	263000.0000	2.63E+05nc
Zirconium	-	-	-	-	-	-	834.0000	729.0000	389.0000	3.89E+02nc

Output generated 14OCT2020:12:28:09

ATTACHMENT 2

**ATTACHMENT 2 - RSL CALCULATOR OUPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Equation Inputs for Surface Water

* Inputted values different from Recreator defaults are highlighted.

Variable	Recreator Surface Water Default Value	Form-input Value
BW ₀₋₂ (body weight) kg	15	0
BW ₂₋₆ (body weight) kg	15	18.6
BW ₆₋₁₆ (body weight) kg	80	0
BW ₁₆₋₃₀ (body weight) kg	80	0
BW _a (body weight - adult) kg	80	0
BW _{rec-a} (body weight - adult) kg	80	0
DFW _{rec-adj} (age-adjusted dermal factor) cm ² -event/kg	0	1317.204
DFWM _{rec-adj} (mutagenic age-adjusted dermal factor) cm ² -event/kg	0	3951.613
ED _{rec} (exposure duration - recreator) years	26	0.5
ED ₀₋₂ (exposure duration) years	2	0
ED ₂₋₆ (exposure duration) years	4	0.5
ED ₆₋₁₆ (exposure duration) years	10	0
ED ₁₆₋₃₀ (exposure duration) years	10	0
ED _{rec-a} (exposure duration - adult) years	20	0
EF _{rec-w} (exposure frequency) days/year	0	7
EF ₂₋₆ (exposure frequency) days/year	0	7
EF ₆₋₁₆ (exposure frequency) days/year	0	0
EF ₁₆₋₃₀ (exposure frequency) days/year	0	0
EF _{rec-a} (adult exposure frequency) days/year	0	0
ET ₀₋₂ (exposure time) hours/event	0	0
ET ₂₋₆ (exposure time) hours/event	0	4
ET ₆₋₁₆ (exposure time) hours/event	0	0
ET ₁₆₋₃₀ (exposure time) hours/event	0	0
ET _{rec-a} (adult exposure time) hours/event	0	0
EV ₀₋₂ (events) events/day	0	0
EV ₂₋₆ (events) events/day	0	1
EV ₆₋₁₆ (events) events/day	0	0
EV ₁₆₋₃₀ (events) events/day	0	0
EV _{rec-a} (adult) events/day	0	0
THQ (target hazard quotient) unitless	0.1	0.1
IFW _{rec-adj} (age-adjusted water intake rate) L/kg	0	0.008
IFWM _{rec-adj} (mutagenic age-adjusted water intake rate) L/kg	0	0.023
IRW ₀₋₂ (water intake rate) L/hour	0.12	0
IRW ₂₋₆ (water intake rate) L/hour	0.12	0.01
IRW ₆₋₁₆ (water intake rate) L/hour	0.124	0
IRW ₁₆₋₃₀ (water intake rate) L/hour	0.0985	0
IRW _{rec} (water intake rate - adult) L/day	0.11	0
IRW _{rec-a} (water intake rate - adult) L/hr	0.11	0
LT (lifetime - recreator) years	70	70
SA ₀₋₂ (skin surface area) cm ²	6365	0
SA ₂₋₆ (skin surface area) cm ²	6365	7000
SA ₆₋₁₆ (skin surface area) cm ²	19652	0
SA ₁₆₋₃₀ (skin surface area) cm ²	19652	0
SA _{rec} (skin surface area - adult) cm ²	19652	0
SA _{rec-a} (skin surface area - adult) cm ²	19652	0
Apparent thickness of stratum corneum (cm)	0.001	0.001
TR (target risk) unitless	0.000001	0.000001

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Acenaphthene	-	-	-	485000.0000	6510.0000	6420.0000	-	-	-	6.42E+03nc
Acephate	-	-	-	9700.0000	222000.0000	9290.0000	-	-	-	9.29E+03nc
Acetaldehyde	-	-	-	-	-	-	-	-	-	-
Acetochlor	-	-	-	48500.0000	6090.0000	5410.0000	-	-	-	5.41E+03nc
Acetone	-	-	-	4850000.0000	12200000.0000	3470000.0000	-	-	-	3.47E+06nc
Acetone Cyanohydrin	-	-	-	-	-	-	-	-	-	-
Acetonitrile	-	-	-	145000.0000	349000.0000	103000.0000	-	-	-	1.03E+05nc
Acetophenone	-	-	-	1940000.0000	603000.0000	460000.0000	-	-	-	4.60E+05nc
Acetylaminofluorene, 2-	840.0000	64.9000	60.2000	-	-	-	-	-	-	6.02E+01ca
Acrolein	-	-	-	9700.0000	16700.0000	6140.0000	-	-	-	6.14E+03nc
Acrylamide	2220.0000	12800.0000	1890.0000	2420.0000	13700.0000	2060.0000	-	-	-	1.89E+03ca**
Acrylic Acid	-	-	-	485000.0000	584000.0000	265000.0000	-	-	-	2.65E+05nc
Acrylonitrile	5910.0000	7030.0000	3210.0000	24200.0000	27100.0000	12800.0000	-	-	-	3.21E+03ca**
Adiponitrile	-	-	-	-	-	-	-	-	-	-
Alachlor	57000.0000	3590.0000	3380.0000	24200.0000	1440.0000	1360.0000	-	-	-	1.36E+03nc
Aldicarb	-	-	-	2420.0000	2850.0000	1310.0000	-	-	-	1.31E+03nc
Aldicarb Sulfone	-	-	-	2420.0000	49700.0000	2310.0000	-	-	-	2.31E+03nc
Aldrin	188.0000	-	188.0000	97.0000	-	97.0000	-	-	-	9.70E+01nc
Allyl Alcohol	-	-	-	9700.0000	13000.0000	5560.0000	-	-	-	5.56E+03nc
Allyl Chloride	152000.0000	18600.0000	16600.0000	-	-	-	-	-	-	1.66E+04ca
Aluminum	-	-	-	2420000.0000	3460000.0000	1430000.0000	-	-	-	1.43E+06nc
Aluminum Phosphide	-	-	-	970.0000	1390.0000	571.0000	-	-	-	5.71E+02nc
Aluminum metaphosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

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Ametryn	-	-	-	218000.0000	20200.0000	18500.0000	-	-	-	1.85E+04nc
Aminobiphenyl, 4-	152.0000	11.5000	10.7000	-	-	-	-	-	-	1.07E+01ca
Aminophenol, m-	-	-	-	727000.0000	1630000.0000	503000.0000	-	-	-	5.03E+05nc
Aminophenol, o-	-	-	-	97000.0000	116000.0000	52800.0000	-	-	-	5.28E+04nc
Aminophenol, p-	-	-	-	485000.0000	1400000.0000	360000.0000	-	-	-	3.60E+05nc
Amitraz	-	-	-	6060.0000	20.2000	20.2000	-	-	-	2.02E+01nc
Ammonium Perchlorate	-	-	-	1700.0000	2420.0000	998.0000	-	-	-	9.98E+02nc
Ammonium Sulfamate	-	-	-	485000.0000	693000.0000	285000.0000	-	-	-	2.85E+05nc
Ammonium polyphosphate	-	-	-	11800000.0000	16800000.0000	6930000.0000	-	-	-	6.93E+07nc
Amyl Alcohol, tert-	-	-	-	-	-	-	-	-	-	-
Aniline	560000.0000	391000.0000	230000.0000	17000.0000	11200.0000	6730.0000	-	-	-	6.73E+03nc
Anthracene	-	-	-	2420000.0000	17200.0000	17100.0000	-	-	-	1.71E+04nc
Anthraquinone, 9,10-	79800.0000	4040.0000	3840.0000	24200.0000	1150.0000	1100.0000	-	-	-	1.10E+03nc
Antimony (metallic)	-	-	-	970.0000	208.0000	171.0000	-	-	-	1.71E+02nc
Antimony Pentoxide	-	-	-	1210.0000	260.0000	214.0000	-	-	-	2.14E+02nc
Antimony Potassium Tartrate	-	-	-	970.0000	-	970.0000	-	-	-	9.70E+02nc
Antimony Tetroxide	-	-	-	970.0000	208.0000	171.0000	-	-	-	1.71E+02nc
Antimony Trichloride	-	-	-	970.0000	1390.0000	571.0000	-	-	-	5.71E+02nc
Antimony Trioxide	-	-	-	1210000.0000	260000.0000	214000.0000	-	-	-	2.14E+05nc
Aroclor 1016	45600.0000	-	45600.0000	170.0000	-	170.0000	-	-	-	1.70E+02nc
Aroclor 1221	1600.0000	9.5400	9.4900	-	-	-	-	-	-	9.49E+00ca
Aroclor 1232	1600.0000	9.5400	9.4900	-	-	-	-	-	-	9.49E+00ca
Aroclor 1242	1600.0000	-	1600.0000	-	-	-	-	-	-	1.60E+03ca
Aroclor 1248	1600.0000	-	1600.0000	-	-	-	-	-	-	1.60E+03ca
Aroclor 1254	1600.0000	-	1600.0000	72.7000	-	72.7000	-	-	-	7.27E+01nc
Aroclor 1260	1600.0000	-	1600.0000	-	-	-	-	-	-	1.60E+03ca

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Aroclor 5460	-	-	-	14500.0000	-	14500.0000	-	-	-	1.45E+04nc
Arsenic, Inorganic	2130.0000	3230.0000	1280.0000	727.0000	1040.0000	428.0000	-	-	-	4.28E+02nc
Arsine	-	-	-	8.4900	12.1000	4.9900	-	-	-	4.99E+00nc
Asulam	-	-	-	87300.0000	1190000.0000	81300.0000	-	-	-	8.13E+04nc
Atrazine	13900.0000	2230.0000	1930.0000	7270.0000	1100.0000	957.0000	-	-	-	9.57E+02nc
Auramine	3630.0000	512.0000	449.0000	-	-	-	-	-	-	4.49E+02ca
Avermectin B1	-	-	-	970.0000	-	970.0000	-	-	-	9.70E+02nc
Azinphos-methyl	-	-	-	7270.0000	1710.0000	1390.0000	-	-	-	1.39E+03nc
Azobenzene	29000.0000	579.0000	568.0000	-	-	-	-	-	-	5.68E+02ca
Azodicarbonamide	-	-	-	2420000.0000	10800000.0000	2370000.0000	-	-	-	2.37E+06nc
Barium	-	-	-	485000.0000	48500.0000	44100.0000	-	-	-	4.41E+04nc
Benfluralin	-	-	-	727000.0000	4940.0000	4910.0000	-	-	-	4.91E+03nc
Benomyl	-	-	-	121000.0000	63100.0000	41500.0000	-	-	-	4.15E+04nc
Bensulfuron-methyl	-	-	-	485000.0000	501000.0000	246000.0000	-	-	-	2.46E+05nc
Bentazon	-	-	-	72700.0000	19500.0000	15400.0000	-	-	-	1.54E+04nc
Benz[a]anthracene	11100.0000	-	11100.0000	-	-	-	-	-	-	1.11E+04ca
Benzaldehyde	798000.0000	265000.0000	199000.0000	485000.0000	151000.0000	115000.0000	-	-	-	1.15E+05nc
Benzene	58100.0000	5360.0000	4910.0000	24200.0000	2110.0000	1940.0000	-	-	-	1.94E+03nc
Benzenediamine-2-methyl sulfate, 1,4-	31900.0000	-	31900.0000	7270.0000	-	7270.0000	-	-	-	7.27E+03nc
Benzenethiol	-	-	-	24200.0000	1670.0000	1560.0000	-	-	-	1.56E+03nc
Benzidine	4.8300	3.9800	2.1800	7270.0000	5880.0000	3250.0000	-	-	-	2.18E+00ca
Benzo(j)fluoranthene	2660.0000	-	2660.0000	-	-	-	-	-	-	2.66E+03ca
Benzo(a)pyrene	1110.0000	-	1110.0000	727.0000	-	727.0000	-	-	-	7.27E+02nc
Benzo(b)fluoranthene	11100.0000	-	11100.0000	-	-	-	-	-	-	1.11E+04ca
Benzo(k)fluoranthene	111000.0000	-	111000.0000	-	-	-	-	-	-	1.11E+05ca
Benzoic Acid	-	-	-	9700000.0000	1980000.0000	1650000.0000	-	-	-	1.65E+06nc
Benzotrichloride	246.0000	4.7600	4.6700	121.0000	2.2100	2.1700	-	-	-	2.17E+00nc
Benzyl Alcohol	-	-	-	727000.0000	412000.0000	263000.0000	-	-	-	2.63E+05nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

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Benzyl Chloride	18800.0000	2240.0000	2000.0000	4850.0000	543.0000	488.0000	-	-	-	4.88E+02nc
Beryllium and compounds	-	-	-	12100.0000	121.0000	120.0000	-	-	-	1.20E+02nc
BifenoX	-	-	-	2420000.0000	52800.0000	51700.0000	-	-	-	5.17E+04nc
Biphenthrin	-	-	-	36400.0000	-	36400.0000	-	-	-	3.64E+04nc
Biphenyl, 1,1'-	399000.0000	5230.0000	5160.0000	242000.0000	2990.0000	2950.0000	-	-	-	2.95E+03nc
Bis(2-chloro-1-methylethyl) ether	-	-	-	2420.0000	311.0000	276.0000	-	-	-	2.76E+02nc
Bis(2-chloroethoxy)methane	-	-	-	72700.0000	57300.0000	32100.0000	-	-	-	3.21E+04nc
Bis(2-chloroethyl)ether	2900.0000	1870.0000	1140.0000	-	-	-	-	-	-	1.14E+03ca
Bis(2-ethylhexyl)phthalate	228000.0000	-	228000.0000	48500.0000	-	48500.0000	-	-	-	4.85E+04nc
Bis(chloromethyl)ether	14.5000	21.0000	8.5800	-	-	-	-	-	-	8.58E+00ca
Bisphenol A	-	-	-	1450000.0000	80600.0000	76400.0000	-	-	-	7.64E+04nc
Boron And Borates Only	-	-	-	485000.0000	693000.0000	285000.0000	-	-	-	2.85E+05nc
Boron Trichloride	-	-	-	4850000.0000	6930000.0000	2850000.0000	-	-	-	2.85E+06nc
Boron Trifluoride	-	-	-	97000.0000	139000.0000	57100.0000	-	-	-	5.71E+04nc
Bromate	4560.0000	6930.0000	2750.0000	9700.0000	13900.0000	5710.0000	-	-	-	2.75E+03ca**
Bromo-2-chloroethane, 1-	1600.0000	396.0000	317.0000	-	-	-	-	-	-	3.17E+02ca
Bromo-3-fluorobenzene, 1-	-	-	-	7270.0000	498.0000	466.0000	-	-	-	4.66E+02nc
Bromo-4-fluorobenzene, 1-	-	-	-	7270.0000	390.0000	370.0000	-	-	-	3.70E+02nc
Bromobenzene	-	-	-	48500.0000	2570.0000	2440.0000	-	-	-	2.44E+03nc
Bromochloromethane	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	51500.0000	13700.0000	10800.0000	19400.0000	4840.0000	3870.0000	-	-	-	3.87E+03nc
Bromoform	404000.0000	114000.0000	89100.0000	72700.0000	19300.0000	15300.0000	-	-	-	1.53E+04nc
Bromomethane	-	-	-	12100.0000	5210.0000	3640.0000	-	-	-	3.64E+03nc

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Bromophos	-	-	-	121000.0000	1140.0000	1130.0000	-	-	-	1.13E+03nc
Bromopropane, 1-	-	-	-	-	-	-	-	-	-	
Bromoxynil	31000.0000	2500.0000	2310.0000	48500.0000	3680.0000	3420.0000	-	-	-	2.31E+03ca**
Bromoxynil Octanoate	31000.0000	294.0000	291.0000	48500.0000	433.0000	429.0000	-	-	-	2.91E+02ca**
Butadiene, 1,3-	5320.0000	462.0000	425.0000	-	-	-	-	-	-	4.25E+02ca
Butanoic acid, 4-(2,4-dichlorophenoxy)-	-	-	-	194000.0000	9920.0000	9440.0000	-	-	-	9.44E+03nc
Butanol, N-	-	-	-	2420000.0000	1330000.0000	858000.0000	-	-	-	8.58E+05nc
Butyl Benzyl Phthalate	#####	21900.0000	21700.0000	4850000.0000	59500.0000	58800.0000	-	-	-	2.17E+04ca**
Butyl Formate, tert-	-	-	-	19400.0000	9040.0000	6170.0000	-	-	-	6.17E+03nc
Butyl alcohol, sec-	-	-	-	4850000.0000	4000000.0000	2190000.0000	-	-	-	2.19E+06nc
Butylate	-	-	-	121000.0000	1760.0000	1730.0000	-	-	-	1.73E+03nc
Butylated hydroxyanisole	#####	204000.0000	201000.0000	-	-	-	-	-	-	2.01E+05ca
Butylated hydroxytoluene	887000.0000	3260.0000	3240.0000	2420000.0000	8370.0000	8340.0000	-	-	-	3.24E+03ca**
Butylbenzene, n-	-	-	-	242000.0000	-	242000.0000	-	-	-	2.42E+05nc
Butylbenzene, sec-	-	-	-	242000.0000	-	242000.0000	-	-	-	2.42E+05nc
Butylbenzene, tert-	-	-	-	242000.0000	2190.0000	2170.0000	-	-	-	2.17E+03nc
Butylphthalyl Butylglycolate	-	-	-	2420000.0000	84600.0000	81800.0000	-	-	-	8.18E+04nc
Cacodylic Acid	-	-	-	48500.0000	115000.0000	34100.0000	-	-	-	3.41E+04nc
Cadmium (Water)	-	-	-	1210.0000	86.6000	80.8000	-	-	-	8.08E+01nc
Calcium Cyanide	-	-	-	97000.0000	139000.0000	57100.0000	-	-	-	5.71E+04nc
Calcium pyrophosphate	-	-	-	11800000.0000	16800000.0000	6930000.0000	-	-	-	6.93E+07nc
Caprolactam	-	-	-	1210000.0000	1420000.0000	653000.0000	-	-	-	6.53E+05nc
Captafol	21300.0000	1460.0000	1370.0000	4850.0000	314.0000	295.0000	-	-	-	2.95E+02nc

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Captan	#####	290000.0000	240000.0000	315000.0000	61800.0000	51700.0000	-	-	-	5.17E+04nc
Carbaryl	-	-	-	242000.0000	47300.0000	39600.0000	-	-	-	3.96E+04nc
Carbofuran	-	-	-	12100.0000	2960.0000	2380.0000	-	-	-	2.38E+03nc
Carbon Disulfide	-	-	-	242000.0000	27400.0000	24600.0000	-	-	-	2.46E+04nc
Carbon Tetrachloride	45600.0000	3170.0000	2970.0000	17000.0000	1110.0000	1040.0000	-	-	-	1.04E+03nc
Carbonyl Sulfide	-	-	-	-	-	-	-	-	-	-
Carbosulfan	-	-	-	24200.0000	143.0000	143.0000	-	-	-	1.43E+02nc
Carboxin	-	-	-	242000.0000	85600.0000	63300.0000	-	-	-	6.33E+04nc
Ceric oxide	-	-	-	-	-	-	-	-	-	-
Chloral	-	-	-	48500.0000	48500.0000	24200.0000	-	-	-	2.42E+04nc
Chloral Hydrate	-	-	-	242000.0000	286000.0000	131000.0000	-	-	-	1.31E+05nc
Chloramben	-	-	-	36400.0000	14800.0000	10500.0000	-	-	-	1.05E+04nc
Chloranil	7920.0000	2840.0000	2090.0000	-	-	-	-	-	-	2.09E+03ca
Chlordane (technical mixture)	9130.0000	29.4000	29.3000	1450.0000	4.4100	4.4000	-	-	-	4.40E+00nc
Chlordecone (Kepone)	319.0000	5.2500	5.1600	727.0000	11.2000	11.1000	-	-	-	5.16E+00ca**
Chlorfenvinphos	-	-	-	4850.0000	330.0000	309.0000	-	-	-	3.09E+02nc
Chlorimuron, Ethyl-	-	-	-	218000.0000	142000.0000	86000.0000	-	-	-	8.60E+04nc
Chlorine	-	-	-	242000.0000	346000.0000	143000.0000	-	-	-	1.43E+05nc
Chlorine Dioxide	-	-	-	72700.0000	104000.0000	42800.0000	-	-	-	4.28E+04nc
Chlorite (Sodium Salt)	-	-	-	242000.0000	346000.0000	143000.0000	-	-	-	1.43E+05nc
Chloro-1,1-difluoroethane, 1-	-	-	-	-	-	-	-	-	-	-
Chloro-1,3-butadiene, 2-	-	-	-	48500.0000	2650.0000	2510.0000	-	-	-	2.51E+03nc
Chloro-2-methylaniline HCl, 4-	6940.0000	385000.0000	6820.0000	-	-	-	-	-	-	6.82E+03ca
Chloro-2-methylaniline, 4-	31900.0000	4610.0000	4030.0000	1210000.0000	165000.0000	145000.0000	-	-	-	4.03E+03ca*
Chloroacetaldehyde, 2-	11800.0000	24200.0000	7940.0000	-	-	-	-	-	-	7.94E+03ca
Chloroacetophenone, 2-	-	-	-	-	-	-	-	-	-	-
Chloroaniline, p-	16000.0000	3890.0000	3130.0000	1210.0000	278.0000	226.0000	-	-	-	2.26E+02nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Chlorobenzene	-	-	-	170000.0000	7500.0000	7180.0000	-	-	-	7.18E+03nc
Chlorobenzene sulfonic acid, p-	-	-	-	2420000.0000	36300000.0000	2270000.0000	-	-	-	2.27E+06nc
Chlorobenzilate	29000.0000	456.0000	449.0000	48500.0000	717.0000	707.0000	-	-	-	4.49E+02ca**
Chlorobenzoic Acid, p-	-	-	-	194000.0000	16900.0000	15600.0000	-	-	-	1.56E+04nc
Chlorobenzotrifluoride, 3-nitro-4-	-	-	-	242.0000	12.6000	12.0000	-	-	-	1.20E+01nc
Chlorobenzotrifluoride, 4-	-	-	-	72700.0000	1870.0000	1830.0000	-	-	-	1.83E+03nc
Chlorobutane, 1- Chlorodifluoromethane	- -	- -	- -	170000.0000 -	8190.0000 -	7820.0000 -	- -	- -	- -	7.82E+03nc
Chloroethanol, 2-	-	-	-	485000.0000	1040000.0000	331000.0000	-	-	-	3.31E+05nc
Chloroform	103000.0000	18700.0000	15800.0000	242000.0000	41400.0000	35400.0000	-	-	-	1.58E+04ca**
Chloromethane	-	-	-	-	-	-	-	-	-	-
Chloromethyl Methyl Ether	1330.0000	1950.0000	791.0000	-	-	-	-	-	-	7.91E+02ca
Chloronaphthalene, Beta-	-	-	-	485000.0000	7090.0000	6980.0000	-	-	-	6.98E+03nc
Chloronitrobenzene, o-	10600.0000	1850.0000	1580.0000	48500.0000	7950.0000	6830.0000	-	-	-	1.58E+03ca**
Chloronitrobenzene, p-	53200.0000	7390.0000	6490.0000	1700.0000	222.0000	196.0000	-	-	-	1.96E+02nc
Chlorophenol, 2- Chloropicrin	- -	- -	- -	19400.0000 -	2770.0000 -	2420.0000 -	- -	- -	- -	2.42E+03nc
Chloroethalonil	188000.0000	23700.0000	21100.0000	36400.0000	4320.0000	3860.0000	-	-	-	3.86E+03nc
Chlorotoluene, o-	-	-	-	48500.0000	1070.0000	1040.0000	-	-	-	1.04E+03nc
Chlorotoluene, p- Chlorozotocin	- 13.3000	- 820.0000	- 13.1000	485000.0000 -	12100.0000 -	11800.0000 -	- -	- -	- -	1.18E+04nc 1.31E+01ca
Chlorpropham	-	-	-	121000.0000	4970.0000	4770.0000	-	-	-	4.77E+03nc
Chlorpyrifos	-	-	-	7270.0000	90.5000	89.4000	-	-	-	8.94E+01nc

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LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Chlorpyrifos Methyl	-	-	-	24200.0000	603.0000	588.0000	-	-	-	5.88E+02nc
Chlorsulfuron	-	-	-	121000.0000	117000.0000	59600.0000	-	-	-	5.96E+04nc
Chlorthal-dimethyl	-	-	-	24200.0000	673.0000	655.0000	-	-	-	6.55E+02nc
Chlorthiophos	-	-	-	1940.0000	7.1000	7.0800	-	-	-	7.08E+00nc
Chromium(III), Insoluble Salts	-	-	-	3640000.0000	67500.0000	66300.0000	-	-	-	6.63E+04nc
Chromium(VI)	2220.0000	40.4000	39.7000	12100.0000	216.0000	213.0000	-	-	-	3.97E+01ca**
Chrysene	#####	-	1110000.0000	-	-	-	-	-	-	1.11E+06ca
Clofentezine	-	-	-	31500.0000	4420.0000	3870.0000	-	-	-	3.87E+03nc
Cobalt	-	-	-	7270.0000	26000.0000	5680.0000	-	-	-	5.68E+03nc
Copper	-	-	-	24200.0000	34600.0000	14300.0000	-	-	-	1.43E+04nc
Copper Cyanide	-	-	-	121000.0000	173000.0000	71300.0000	-	-	-	7.13E+04nc
Cresol, m-	-	-	-	970000.0000	150000.0000	130000.0000	-	-	-	1.30E+05nc
Cresol, o-	-	-	-	485000.0000	76100.0000	65800.0000	-	-	-	6.58E+04nc
Cresol, p-	-	-	-	48500.0000	7730.0000	6660.0000	-	-	-	6.66E+03nc
Cresol, p-chloro-m-	-	-	-	242000.0000	9660.0000	9290.0000	-	-	-	9.29E+03nc
Cresols	-	-	-	242000.0000	13800.0000	13100.0000	-	-	-	1.31E+04nc
Crotonaldehyde, trans-	1680.0000	1430.0000	772.0000	24200.0000	19400.0000	10800.0000	-	-	-	7.72E+02ca*
Cumene	-	-	-	970000.0000	14600.0000	14400.0000	-	-	-	1.44E+04nc
Cupferron	14500.0000	#####	14500.0000	-	-	-	-	-	-	1.45E+04ca
Cyanazine	3800.0000	1310.0000	972.0000	4850.0000	1570.0000	1180.0000	-	-	-	9.72E+02ca**
Cyanide (CN-)	-	-	-	48500.0000	69300.0000	28500.0000	-	-	-	2.85E+04nc
Cyanogen	-	-	-	97000.0000	156000.0000	59800.0000	-	-	-	5.98E+04nc
Cyanogen Bromide	-	-	-	218000.0000	1220000.0000	185000.0000	-	-	-	1.85E+05nc

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LOWER DARBY CREEK AREA

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Cyanogen Chloride	-	-	-	121000.0000	440000.0000	95000.0000	-	-	-	9.50E+04nc
Cyclohexane	-	-	-	-	-	-	-	-	-	
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	160000.0000	7770.0000	7410.0000	48500.0000	2220.0000	2120.0000	-	-	-	2.12E+03nc
Cyclohexanone	-	-	-	4850000.0000	3860000.0000	2150000.0000	-	-	-	2.15E+06nc
Cyclohexene	-	-	-	121000.0000	3850.0000	3730.0000	-	-	-	3.73E+03nc
Cyclohexylamine	-	-	-	727000.0000	208000.0000	162000.0000	-	-	-	1.62E+05nc
Cyclopentadiene	-	-	-	-	-	-	-	-	-	
Cyfluthrin	-	-	-	60600.0000	326.0000	324.0000	-	-	-	3.24E+02nc
Cyhalothrin	-	-	-	24200.0000	-	24200.0000	-	-	-	2.42E+04nc
Cyromazine	-	-	-	1210000.0000	1500000.0000	671000.0000	-	-	-	6.71E+05nc
DDD, p,p'- (DDD)	13300.0000	28.5000	28.5000	72.7000	0.1470	0.1460	-	-	-	1.46E-01nc
DDE, p,p'-	9390.0000	-	9390.0000	727.0000	-	727.0000	-	-	-	7.27E+02nc
DDT	9390.0000	-	9390.0000	1210.0000	-	1210.0000	-	-	-	1.21E+03nc
Dalapon	-	-	-	72700.0000	95900.0000	41400.0000	-	-	-	4.14E+04nc
Daminozide	177000.0000	#####	174000.0000	364000.0000	1850000.0000	357000.0000	-	-	-	1.74E+05ca**
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	#####	-	4560000.0000	485.0000	-	485.0000	-	-	-	4.85E+02nc
Decane	-	-	-	2420000.0000	-	2420000.0000	-	-	-	2.42E+06nc
Demeton	-	-	-	97.0000	1.8300	1.7900	-	-	-	1.79E+00nc
Di(2-ethylhexyl)adipate	#####	-	2660000.0000	1450000.0000	-	1450000.0000	-	-	-	1.45E+06nc
Diallate	52400.0000	750.0000	740.0000	-	-	-	-	-	-	7.40E+02ca
Diammonium phosphate	-	-	-	11800000.0000	16800000.0000	6930000.0000	-	-	-	6.93E+07nc
Diazinon	-	-	-	4850.0000	232.0000	222.0000	-	-	-	2.22E+02nc
Dibenz[a,h]anthracene	1110.0000	-	1110.0000	-	-	-	-	-	-	1.11E+03ca
Dibenzo(a,e)pyrene	266.0000	-	266.0000	-	-	-	-	-	-	2.66E+02ca
Dibenzofuran	-	-	-	9700.0000	107.0000	105.0000	-	-	-	1.05E+02nc

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LOWER DARBY CREEK AREA**

Site-specific

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Dibenzothiophene	-	-	-	24200.0000	200.0000	198.0000	-	-	-	1.98E+02nc
Dibromo-3-chloropropane, 1,2-	1390.0000	143.0000	130.0000	4850.0000	492.0000	446.0000	-	-	-	1.30E+02ca**
Dibromobenzene, 1,3-	-	-	-	9700.0000	325.0000	314.0000	-	-	-	3.14E+02nc
Dibromobenzene, 1,4-	-	-	-	242000.0000	7660.0000	7420.0000	-	-	-	7.42E+03nc
Dibromochloromethane	38000.0000	11300.0000	8710.0000	170000.0000	47500.0000	37100.0000	-	-	-	8.71E+03ca**
Dibromoethane, 1,2-	1600.0000	550.0000	409.0000	21800.0000	7070.0000	5340.0000	-	-	-	4.09E+02ca*
Dibromomethane (Methylene Bromide)	-	-	-	21800.0000	9390.0000	6560.0000	-	-	-	6.56E+03nc
Dibutyl Phthalate	-	-	-	2420000.0000	34000.0000	33500.0000	-	-	-	3.35E+04nc
Dibutyltin Compounds	-	-	-	727.0000	-	727.0000	-	-	-	7.27E+02nc
Dibutyltin dichloride	-	-	-	12100.0000	16200.0000	6940.0000	-	-	-	6.94E+03nc
Dicalcium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Dicamba	-	-	-	72700.0000	21000.0000	16300.0000	-	-	-	1.63E+04nc
Dichloro-2-butene, 1,4-	-	-	-	-	-	-	-	-	-	
Dichloro-2-butene, cis-1,4-	-	-	-	-	-	-	-	-	-	
Dichloro-2-butene, trans-1,4-	-	-	-	-	-	-	-	-	-	
Dichloroacetic Acid	63900.0000	62900.0000	31700.0000	9700.0000	8990.0000	4670.0000	-	-	-	4.67E+03nc
Dichlorobenzene, 1,2-	-	-	-	1450000.0000	37300.0000	36400.0000	-	-	-	3.64E+04nc
Dichlorobenzene, 1,3-	-	-	-	48500.0000	1080.0000	1050.0000	-	-	-	1.05E+03nc
Dichlorobenzene, 1,4-	591000.0000	15900.0000	15500.0000	170000.0000	4290.0000	4190.0000	-	-	-	4.19E+03nc
Dichlorobenzidine, 3,3'-	7100.0000	367.0000	349.0000	-	-	-	-	-	-	3.49E+02ca
Dichlorobenzophenone, 4,4'-	-	-	-	218000.0000	2820.0000	2790.0000	-	-	-	2.79E+03nc
Dichlorobenzotrifluoride, 3,4-	-	-	-	121000.0000	1500.0000	1480.0000	-	-	-	1.48E+03nc
Dichlorodifluoromethane	-	-	-	121000.0000	15800.0000	14000.0000	-	-	-	1.40E+04nc
Dichlorodiisopropyl ether, 2,2'-	-	-	-	97000.0000	1940.0000	1900.0000	-	-	-	1.90E+03nc

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Dichloroethane, 1,1-	560000.0000	108000.0000	90500.0000	4850000.0000	879000.0000	744000.0000	-	-	-	9.05E+04ca**
Dichloroethane, 1,2-	35100.0000	10800.0000	8250.0000	48500.0000	14000.0000	10900.0000	-	-	-	8.25E+03ca**
Dichloroethylene, 1,1-	-	-	-	21800.0000	2320.0000	2100.0000	-	-	-	2.10E+03nc
Dichloroethylene, 1,2-cis-	-	-	-	48500.0000	5470.0000	4920.0000	-	-	-	4.92E+03nc
Dichloroethylene, 1,2-trans-	-	-	-	485000.0000	54700.0000	49200.0000	-	-	-	4.92E+04nc
Dichlorophenol, 2,4-	-	-	-	48500.0000	2430.0000	2320.0000	-	-	-	2.32E+03nc
Dichlorophenoxy Acetic Acid, 2,4-	-	-	-	24200.0000	2800.0000	2510.0000	-	-	-	2.51E+03nc
Dichloropropane, 1,2-	86300.0000	14500.0000	12400.0000	97000.0000	15300.0000	13200.0000	-	-	-	1.24E+04ca**
Dichloropropane, 1,3-	-	-	-	485000.0000	74300.0000	64400.0000	-	-	-	6.44E+04nc
Dichloropropanol, 2,3-	-	-	-	7270.0000	8300.0000	3880.0000	-	-	-	3.88E+03nc
Dichloropropene, 1,3-	31900.0000	4870.0000	4220.0000	97000.0000	13900.0000	12200.0000	-	-	-	4.22E+03ca**
Dichlorvos	11000.0000	11200.0000	5540.0000	7270.0000	6940.0000	3550.0000	-	-	-	3.55E+03nc
Dicrotophos	-	-	-	72.7000	687.0000	65.8000	-	-	-	6.58E+01nc
Dicyclopentadiene	-	-	-	485000.0000	16100.0000	15600.0000	-	-	-	1.56E+04nc
Dieldrin	200.0000	2.2200	2.2000	242.0000	2.5400	2.5200	-	-	-	2.20E+00ca**
Diethanolamine	-	-	-	48500.0000	1280000.0000	46700.0000	-	-	-	4.67E+04nc
Diethyl Phthalate	-	-	-	14500000.0000	3070000.0000	2540000.0000	-	-	-	2.54E+06nc
Diethyl-meta-Toluamide, N,N (DEET)	-	-	-	2420000.0000	578000.0000	466000.0000	-	-	-	4.66E+05nc
Diethylene Glycol Monobutyl Ether	-	-	-	727000.0000	1610000.0000	501000.0000	-	-	-	5.01E+05nc
Diethylene Glycol Monoethyl Ether	-	-	-	1450000.0000	13300000.0000	1310000.0000	-	-	-	1.31E+06nc
Diethylformamide	-	-	-	2420.0000	6360.0000	1760.0000	-	-	-	1.76E+03nc
Diethylstilbestrol	9.1300	0.0534	0.0531	-	-	-	-	-	-	5.31E-02ca
Difenzoquat	-	-	-	201000.0000	1560000.0000	178000.0000	-	-	-	1.78E+05nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Diflubenzuron	-	-	-	48500.0000	2170.0000	2070.0000	-	-	-	2.07E+03nc
Difluoroethane, 1,1-	-	-	-	-	-	-	-	-	-	
Difluoropropane, 2,2-	-	-	-	-	-	-	-	-	-	
Dihydrosafrole	72600.0000	1810.0000	1760.0000	-	-	-	-	-	-	1.76E+03ca
Diisopropyl Ether	-	-	-	-	-	-	-	-	-	
Diisopropyl Methylphosphonate	-	-	-	2420000.0000	3060000.0000	1350000.0000	-	-	-	1.35E+06nc
Dimagnesium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Dimethipin	-	-	-	52900.0000	528000.0000	48000.0000	-	-	-	4.80E+04nc
Dimethoate	-	-	-	485.0000	1320.0000	355.0000	-	-	-	3.55E+02nc
Dimethoxybenzidine, 3,3'-	2000.0000	1320.0000	795.0000	2420.0000	1510.0000	930.0000	-	-	-	7.95E+02ca**
Dimethyl methylphosphonate	#####	#####	1700000.0000	145000.0000	1330000.0000	131000.0000	-	-	-	1.31E+05nc
Dimethylamino azobenzene [p-]	694.0000	5.8400	5.7900	-	-	-	-	-	-	5.79E+00ca
Dimethylaniline HCl, 2,4-	5510.0000	331000.0000	5420.0000	-	-	-	-	-	-	5.42E+03ca
Dimethylaniline, 2,4-	16000.0000	4580.0000	3560.0000	4850.0000	1310.0000	1030.0000	-	-	-	1.03E+03nc
Dimethylaniline, N,N-	118000.0000	13200.0000	11900.0000	4850.0000	508.0000	460.0000	-	-	-	4.60E+02nc
Dimethylbenz(a)anthracene, 7,12-	4.4400	-	4.4400	-	-	-	-	-	-	4.44E+00ca
Dimethylbenzidine, 3,3'-	290.0000	67.3000	54.7000	-	-	-	-	-	-	5.47E+01ca
Dimethylformamide	-	-	-	727000.0000	7050000.0000	659000.0000	-	-	-	6.59E+05nc
Dimethylhydrazine, 1,1-	-	-	-	242.0000	2680.0000	222.0000	-	-	-	2.22E+02nc
Dimethylhydrazine, 1,2-	5.8100	25.0000	4.7100	1940.0000	7850.0000	1560.0000	-	-	-	4.71E+00ca
Dimethylphenol, 2,4-	-	-	-	121000.0000	13000.0000	11700.0000	-	-	-	1.17E+04nc
Dimethylphenol, 2,6-	-	-	-	14500.0000	1420.0000	1290.0000	-	-	-	1.29E+03nc
Dimethylphenol, 3,4-	-	-	-	24200.0000	2890.0000	2580.0000	-	-	-	2.58E+03nc
Dimethylphthalate	-	-	-	242000.0000	144000.0000	90200.0000	-	-	-	9.02E+04nc
Dimethylterephthalate	-	-	-	242000.0000	53100.0000	43500.0000	-	-	-	4.35E+04nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Dimethylvinylchloride	71000.0000	3870.0000	3670.0000	-	-	-	-	-	-	3.67E+03ca
Dinitro-o-cresol, 4,6-	-	-	-	1940.0000	526.0000	414.0000	-	-	-	4.14E+02nc
Dinitro-o-cyclohexyl Phenol, 4,6-	-	-	-	4850.0000	112.0000	110.0000	-	-	-	1.10E+02nc
Dinitrobenzene, 1,2-	-	-	-	2420.0000	1010.0000	711.0000	-	-	-	7.11E+02nc
Dinitrobenzene, 1,3-	-	-	-	1210.0000	684.0000	437.0000	-	-	-	4.37E+02nc
Dinitrobenzene, 1,4-	-	-	-	2420.0000	1430.0000	898.0000	-	-	-	8.98E+02nc
Dinitrophenol, 2,4-	-	-	-	48500.0000	23700.0000	15900.0000	-	-	-	1.59E+04nc
Dinitrotoluene Mixture, 2,4/2,6-	4700.0000	1110.0000	899.0000	-	-	-	-	-	-	8.99E+02ca
Dinitrotoluene, 2,4-	10300.0000	3290.0000	2490.0000	17000.0000	5100.0000	3920.0000	-	-	-	2.49E+03ca**
Dinitrotoluene, 2,6-	2130.0000	567.0000	447.0000	9700.0000	2430.0000	1940.0000	-	-	-	4.47E+02ca**
Dinitrotoluene, 2-Amino-4,6-	-	-	-	727.0000	306.0000	215.0000	-	-	-	2.15E+02nc
Dinitrotoluene, 4-Amino-2,6-	-	-	-	727.0000	306.0000	215.0000	-	-	-	2.15E+02nc
Dinitrotoluene, Technical grade	7100.0000	213.0000	207.0000	12100.0000	343.0000	333.0000	-	-	-	2.07E+02ca**
Dinoseb	-	-	-	2420.0000	112.0000	107.0000	-	-	-	1.07E+02nc
Dioxane, 1,4-	31900.0000	126000.0000	25500.0000	1210000.0000	4490000.0000	954000.0000	-	-	-	2.55E+04ca*
Diphenamid	-	-	-	72700.0000	8800.0000	7850.0000	-	-	-	7.85E+03nc
Diphenyl Ether	-	-	-	-	-	-	-	-	-	-
Diphenyl Sulfone	-	-	-	19400.0000	4120.0000	3400.0000	-	-	-	3.40E+03nc
Diphenylamine	-	-	-	48500.0000	1330.0000	1300.0000	-	-	-	1.30E+03nc
Diphenylhydrazine, 1,2-	3990.0000	303.0000	281.0000	-	-	-	-	-	-	2.81E+02ca
Dipotassium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Diquat	-	-	-	5330.0000	-	5330.0000	-	-	-	5.33E+03nc
Direct Black 38	432.0000	-	432.0000	-	-	-	-	-	-	4.32E+02ca
Direct Blue 6	432.0000	-	432.0000	-	-	-	-	-	-	4.32E+02ca
Direct Brown 95	477.0000	-	477.0000	-	-	-	-	-	-	4.77E+02ca

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Disodium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Disulfoton	-	-	-	218.0000	6.2100	6.0400	-	-	-	6.04E+00nc
Dithiane, 1,4-	-	-	-	24200.0000	25800.0000	12500.0000	-	-	-	1.25E+04nc
Diundecyl Phthalate	-	-	-	72700.0000	-	72700.0000	-	-	-	7.27E+04nc
Diuron	-	-	-	4850.0000	738.0000	641.0000	-	-	-	6.41E+02nc
Dodine	-	-	-	48500.0000	109000.0000	33600.0000	-	-	-	3.36E+04nc
EPTC	-	-	-	60600.0000	2990.0000	2850.0000	-	-	-	2.85E+03nc
Endosulfan	-	-	-	12100.0000	1090.0000	999.0000	-	-	-	9.99E+02nc
Endosulfan Sulfate	-	-	-	7270.0000	942.0000	834.0000	-	-	-	8.34E+02nc
Endothall	-	-	-	48500.0000	16700.0000	12400.0000	-	-	-	1.24E+04nc
Endrin	-	-	-	727.0000	7.6300	7.5500	-	-	-	7.55E+00nc
Epichlorohydrin	323000.0000	443000.0000	187000.0000	14500.0000	18800.0000	8200.0000	-	-	-	8.20E+03nc
Epoxybutane, 1,2-	-	-	-	-	-	-	-	-	-	
Ethanol, 2-(2-methoxyethoxy)-	-	-	-	97000.0000	2040000.0000	92600.0000	-	-	-	9.26E+04nc
Ethephon	-	-	-	12100.0000	74800.0000	10400.0000	-	-	-	1.04E+04nc
Ethion	-	-	-	4850.0000	63.5000	62.7000	-	-	-	6.27E+01nc
Ethoxyethanol Acetate, 2-	-	-	-	2420000.0000	3850000.0000	1490000.0000	-	-	-	1.49E+06nc
Ethoxyethanol, 2-	-	-	-	242000.0000	989000.0000	195000.0000	-	-	-	1.95E+05nc
Ethyl Acetate	-	-	-	1700000.0000	1370000.0000	757000.0000	-	-	-	7.57E+05nc
Ethyl Acrylate	-	-	-	145000.0000	54300.0000	39500.0000	-	-	-	3.95E+04nc
Ethyl Chloride	-	-	-	242000.0000	51700.0000	42600.0000	-	-	-	4.26E+04nc
Ethyl Ether	-	-	-	1210000.0000	652000.0000	424000.0000	-	-	-	4.24E+05nc
Ethyl Methacrylate	-	-	-	24200.0000	4110.0000	3510.0000	-	-	-	3.51E+03nc
Ethyl-p-nitrophenyl Phosphonate	-	-	-	24.2000	0.3330	0.3280	-	-	-	3.28E-01nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Ethylbenzene	290000.0000	8260.0000	8030.0000	121000.0000	3240.0000	3160.0000	-	-	-	3.16E+03nc
Ethylene Cyanohydrin	-	-	-	727000.0000	6210000.0000	651000.0000	-	-	-	6.51E+05nc
Ethylene Diamine	-	-	-	485000.0000	-	485000.0000	-	-	-	4.85E+05nc
Ethylene Glycol	-	-	-	1940000.0000	28300000.0000	1820000.0000	-	-	-	1.82E+06nc
Ethylene Glycol Monobutyl Ether	-	-	-	170000.0000	162000.0000	82900.0000	-	-	-	8.29E+04nc
Ethylene Oxide	3580.0000	8530.0000	2520.0000	-	-	-	-	-	-	2.52E+03ca
Ethylene Thiourea	71000.0000	593000.0000	63400.0000	194.0000	1520.0000	172.0000	-	-	-	1.72E+02nc
Ethyleneimine	49.1000	118.0000	34.7000	-	-	-	-	-	-	3.47E+01ca
Ethylphthalyl Ethyl Glycolate	-	-	-	7270000.0000	3200000.0000	2220000.0000	-	-	-	2.22E+06nc
Fenamiphos	-	-	-	606.0000	69.7000	62.5000	-	-	-	6.25E+01nc
Fenpropathrin	-	-	-	60600.0000	152.0000	152.0000	-	-	-	1.52E+02nc
Fenvalerate	-	-	-	60600.0000	-	60600.0000	-	-	-	6.06E+04nc
Fluometuron	-	-	-	31500.0000	7120.0000	5800.0000	-	-	-	5.80E+03nc
Fluoranthene	-	-	-	242000.0000	-	242000.0000	-	-	-	2.42E+05nc
Fluorene	-	-	-	970000.0000	9620.0000	9520.0000	-	-	-	9.52E+03nc
Fluoride	-	-	-	97000.0000	139000.0000	57100.0000	-	-	-	5.71E+04nc
Fluorine (Soluble Fluoride)	-	-	-	145000.0000	208000.0000	85600.0000	-	-	-	8.56E+04nc
Fluorobenzene	-	-	-	-	-	-	-	-	-	-
Fluridone	-	-	-	194000.0000	29400.0000	25500.0000	-	-	-	2.55E+04nc
Flurprimidol	-	-	-	97000.0000	9990.0000	9060.0000	-	-	-	9.06E+03nc
Flusilazole	-	-	-	4850.0000	293.0000	277.0000	-	-	-	2.77E+02nc
Flutolanil	-	-	-	1210000.0000	77300.0000	72700.0000	-	-	-	7.27E+04nc
Fluvalinate	-	-	-	24200.0000	-	24200.0000	-	-	-	2.42E+04nc
Folpet	-	-	-	242000.0000	42900.0000	36500.0000	-	-	-	3.65E+04nc
Fomesafen	-	-	-	6060.0000	2500.0000	1770.0000	-	-	-	1.77E+03nc
Fonofos	-	-	-	4850.0000	130.0000	127.0000	-	-	-	1.27E+02nc
Formaldehyde	152000.0000	118000.0000	66500.0000	727000.0000	532000.0000	307000.0000	-	-	-	6.65E+04ca**

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Formic Acid	-	-	-	2180000.0000	7540000.0000	1690000.0000	-	-	-	1.69E+06nc
Fosetyl-AL	-	-	-	6060000.0000	-	6060000.0000	-	-	-	6.06E+06nc
Furan	-	-	-	24200.0000	6160.0000	4910.0000	-	-	-	4.91E+03nc
Furazolidone	840.0000	8300.0000	763.0000	-	-	-	-	-	-	7.63E+02ca
Furfural	-	-	-	72700.0000	104000.0000	42800.0000	-	-	-	4.28E+04nc
Furium	2130.0000	1510.0000	883.0000	-	-	-	-	-	-	8.83E+02ca
Furmecycloz	106000.0000	1590.0000	1570.0000	-	-	-	-	-	-	1.57E+03ca
Gadolinium	-	-	-	97000.0000	139000.0000	57100.0000	-	-	-	5.71E+04nc
Glufosinate, Ammonium	-	-	-	14500.0000	-	14500.0000	-	-	-	1.45E+04nc
Glutaraldehyde	-	-	-	242000.0000	895000.0000	191000.0000	-	-	-	1.91E+05nc
Glycidyl	-	-	-	9700.0000	23700.0000	6880.0000	-	-	-	6.88E+03nc
Glyphosate	-	-	-	242000.0000	-	242000.0000	-	-	-	2.42E+05nc
Guanidine	-	-	-	24200.0000	516000.0000	23200.0000	-	-	-	2.32E+04nc
Guanidine Chloride	-	-	-	48500.0000	-	48500.0000	-	-	-	4.85E+04nc
Guanidine Nitrate	-	-	-	72700.0000	-	72700.0000	-	-	-	7.27E+04nc
Haloxypop, Methyl	-	-	-	121.0000	6.3500	6.0300	-	-	-	6.03E+00nc
Heptachlor	710.0000	1.8900	1.8900	242.0000	0.6090	0.6070	-	-	-	6.07E-01nc
Heptachlor Epoxide	351.0000	5.7800	5.6900	31.5000	0.4880	0.4810	-	-	-	4.81E-01nc
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	819.0000	-	819.0000	56.6000	-	56.6000	-	-	-	5.66E+01nc
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	2.4600	-	2.4600	0.1700	-	0.1700	-	-	-	1.70E-01nc
Heptanal, n-	-	-	-	-	-	-	-	-	-	-
Heptane, N-	-	-	-	7270.0000	-	7270.0000	-	-	-	7.27E+03nc
Hexabromobenzene	-	-	-	48500.0000	-	48500.0000	-	-	-	4.85E+04nc
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	-	-	-	485.0000	-	485.0000	-	-	-	4.85E+02nc
Hexachlorobenzene	2000.0000	-	2000.0000	24.2000	-	24.2000	-	-	-	2.42E+01nc
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	819.0000	-	819.0000	56.6000	-	56.6000	-	-	-	5.66E+01nc

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LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	819.0000	-	819.0000	56.6000	-	56.6000	-	-	-	5.66E+01nc
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 156)	819.0000	-	819.0000	56.6000	-	56.6000	-	-	-	5.66E+01nc
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	0.8190	-	0.8190	0.0566	-	0.0566	-	-	-	5.66E-02nc
Hexachlorobutadiene	40900.0000	354.0000	351.0000	2420.0000	19.7000	19.6000	-	-	-	1.96E+01nc
Hexachlorocyclohexane, Alpha-	507.0000	14.2000	13.8000	19400.0000	511.0000	498.0000	-	-	-	1.38E+01ca*
Hexachlorocyclohexane, Beta-	1770.0000	49.7000	48.4000	1450.0000	38.4000	37.4000	-	-	-	3.74E+01nc
Hexachlorocyclohexane, Gamma- (Lindane)	2900.0000	81.4000	79.1000	24.2000	0.6390	0.6230	-	-	-	6.23E-01nc
Hexachlorocyclohexane, Technical	1770.0000	49.7000	48.4000	-	-	-	-	-	-	4.84E+01ca
Hexachlorocyclopentadiene	-	-	-	242000.0000	1440.0000	1430.0000	-	-	-	1.43E+03nc
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	0.2460	-	0.2460	0.0170	-	0.0170	-	-	-	1.70E-02nc
Hexachlorodibenzo-p-dioxin, Mixture	0.5150	-	0.5150	-	-	-	-	-	-	5.15E-01ca
Hexachlorodibenzofuran, 1,2,3,4,7,8-	0.2460	-	0.2460	0.0170	-	0.0170	-	-	-	1.70E-02nc
Hexachloroethane	79800.0000	1420.0000	1390.0000	24200.0000	405.0000	398.0000	-	-	-	3.98E+02nc
Hexachlorophene	-	-	-	7270.0000	-	7270.0000	-	-	-	7.27E+03nc
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	39900.0000	96100.0000	28200.0000	242000.0000	549000.0000	168000.0000	-	-	-	2.82E+04ca**
Hexamethylene Diisocyanate, 1,6-	-	-	-	-	-	-	-	-	-	
Hexamethylene diisocyanate biuret	-	-	-	-	-	-	-	-	-	
Hexamethylene diisocyanate isocyanurate	-	-	-	-	-	-	-	-	-	
Hexamethylphosphoramide	-	-	-	9700.0000	38200.0000	7740.0000	-	-	-	7.74E+03nc
Hexane, Commercial	-	-	-	-	-	-	-	-	-	
Hexane, N-	-	-	-	727000.0000	6180.0000	6130.0000	-	-	-	6.13E+03nc
Hexanedioic Acid	-	-	-	4850000.0000	19200000.0000	3870000.0000	-	-	-	3.87E+06nc
Hexanol, 1-,2-ethyl- (2-Ethyl-1-hexanol)	336000.0000	21900.0000	20500.0000	170000.0000	10400.0000	9790.0000	-	-	-	9.79E+03nc
Hexanone, 2-	-	-	-	12100.0000	4130.0000	3080.0000	-	-	-	3.08E+03nc
Hexazinone	-	-	-	80000.0000	49200.0000	30400.0000	-	-	-	3.04E+04nc
Hexythiazox	-	-	-	60600.0000	300.0000	298.0000	-	-	-	2.98E+02nc
HpCDD, 1,2,3,4,6,7,8,-	2.4600	-	2.4600	0.1700	-	0.1700	-	-	-	1.70E-01nc
HpCDF, 1,2,3,4,7,8,9-	2.4600	-	2.4600	0.1700	-	0.1700	-	-	-	1.70E-01nc
HxCDD, 1,2,3,6,7,8-	0.2460	-	0.2460	0.0170	-	0.0170	-	-	-	1.70E-02nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
HxCDD, 1,2,3,7,8,9-	0.2460	-	0.2460	0.0170	-	0.0170	-	-	-	1.70E-02nc
HxCDF, 1,2,3,6,7,8-	0.2460	-	0.2460	0.0170	-	0.0170	-	-	-	1.70E-02nc
HxCDF, 1,2,3,7,8,9-	0.2460	-	0.2460	0.0170	-	0.0170	-	-	-	1.70E-02nc
HxCDF, 2,3,4,6,7,8-	0.2460	-	0.2460	0.0170	-	0.0170	-	-	-	1.70E-02nc
Hydramethylnon	-	-	-	41200.0000	60100.0000	24400.0000	-	-	-	2.44E+04nc
Hydrazine	1060.0000	37100.0000	1030.0000	2180.0000	71500.0000	2120.0000	-	-	-	1.03E+03ca**
Hydrazine Sulfate	1060.0000	1620.0000	642.0000	-	-	-	-	-	-	6.42E+02ca
Hydrogen Chloride	-	-	-	-	-	-	-	-	-	-
Hydrogen Cyanide	-	-	-	1450.0000	2080.0000	856.0000	-	-	-	8.56E+02nc
Hydrogen Fluoride	-	-	-	97000.0000	139000.0000	57100.0000	-	-	-	5.71E+04nc
Hydrogen Sulfide	-	-	-	72700.0000	104000.0000	42800.0000	-	-	-	4.28E+04nc
Hydroquinone	53200.0000	71500.0000	30500.0000	970000.0000	1230000.0000	541000.0000	-	-	-	3.05E+04ca*
Imazalil	52300.0000	2500.0000	2380.0000	6060.0000	272.0000	261.0000	-	-	-	2.61E+02nc
Imazaquin	-	-	-	606000.0000	537000.0000	285000.0000	-	-	-	2.85E+05nc
Imazethapyr	-	-	-	6060000.0000	1500000.0000	1200000.0000	-	-	-	1.20E+06nc
Indeno[1,2,3-cd]pyrene	11100.0000	-	11100.0000	-	-	-	-	-	-	1.11E+04ca
Iodine	-	-	-	24200.0000	34600.0000	14300.0000	-	-	-	1.43E+04nc
Iprodione	-	-	-	97000.0000	18800.0000	15800.0000	-	-	-	1.58E+04nc
Iron	-	-	-	1700000.0000	2420000.0000	998000.0000	-	-	-	9.98E+05nc
Isobutyl Alcohol	-	-	-	7270000.0000	4780000.0000	2890000.0000	-	-	-	2.89E+06nc
Isophorone	#####	#####	833000.0000	7270000.0000	2260000.0000	1720000.0000	-	-	-	8.33E+05ca**
Isopropalin	-	-	-	364000.0000	953.0000	950.0000	-	-	-	9.50E+02nc
Isopropanol	-	-	-	4850000.0000	8010000.0000	3020000.0000	-	-	-	3.02E+06nc
Isopropyl Methyl Phosphonic Acid	-	-	-	242000.0000	667000.0000	178000.0000	-	-	-	1.78E+05nc
Isoxaben	-	-	-	121000.0000	5680.0000	5420.0000	-	-	-	5.42E+03nc
JP-4	-	-	-	-	-	-	-	-	-	-
JP-5	-	-	-	-	-	-	-	-	-	-
JP-7	-	-	-	-	-	-	-	-	-	-
JP-8	-	-	-	727000.0000	-	727000.0000	-	-	-	7.27E+05nc
Kerosene	-	-	-	-	-	-	-	-	-	-

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LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Lactofen	-	-	-	19400.0000	555.0000	539.0000	-	-	-	5.39E+02nc
Lactonitrile	-	-	-	4850.0000	41400.0000	4340.0000	-	-	-	4.34E+03nc
Lanthanum	-	-	-	121.0000	173.0000	71.3000	-	-	-	7.13E+01nc
Lanthanum Acetate Hydrate	-	-	-	50.4000	-	50.4000	-	-	-	5.04E+01nc
Lanthanum Chloride Heptahydrate	-	-	-	45.3000	64.8000	26.7000	-	-	-	2.67E+01nc
Lanthanum Chloride, Anhydrous	-	-	-	68.6000	98.0000	40.4000	-	-	-	4.04E+01nc
Lanthanum Nitrate Hexahydrate	-	-	-	38.8000	55.4000	22.8000	-	-	-	2.28E+01nc
Lead Phosphate	376000.0000	571000.0000	227000.0000	-	-	-	-	-	-	2.27E+05ca
Lead acetate	15200.0000	300000.0000	14500.0000	-	-	-	-	-	-	1.45E+04ca
Lead subacetate	84000.0000	-	84000.0000	-	-	-	-	-	-	8.40E+04ca
Lewisite	-	-	-	12.1000	1.8300	1.5900	-	-	-	1.59E+00nc
Linuron	-	-	-	4850.0000	411.0000	379.0000	-	-	-	3.79E+02nc
Lithium	-	-	-	4850.0000	6930.0000	2850.0000	-	-	-	2.85E+03nc
Lithium Perchlorate	-	-	-	1700.0000	2420.0000	998.0000	-	-	-	9.98E+02nc
Lutetium	-	-	-	970000.0000	5850000.0000	832000.0000	-	-	-	8.32E+05nc
MCPA	-	-	-	1210.0000	61.1000	58.1000	-	-	-	5.81E+01nc
MCPB	-	-	-	242000.0000	11400.0000	10900.0000	-	-	-	1.09E+04nc
MCPP	-	-	-	24200.0000	1480.0000	1390.0000	-	-	-	1.39E+03nc
Malathion	-	-	-	48500.0000	22600.0000	15400.0000	-	-	-	1.54E+04nc
Maleic Anhydride	-	-	-	242000.0000	56400.0000	45700.0000	-	-	-	4.57E+04nc
Maleic Hydrazide	-	-	-	1210000.0000	1390000.0000	1110000.0000	-	-	-	1.11E+06nc
Malononitrile	-	-	-	2420.0000	11600.0000	2010.0000	-	-	-	2.01E+03nc
Mancozeb	-	-	-	72700.0000	10200.0000	8950.0000	-	-	-	8.95E+03nc

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Maneb	-	-	-	121000.0000	74600.0000	46200.0000	-	-	-	4.62E+04nc
Manganese (Non-diet)	-	-	-	58200.0000	3330.0000	3150.0000	-	-	-	3.15E+03nc
Mephsolan	-	-	-	2180.0000	5170.0000	1530.0000	-	-	-	1.53E+03nc
Mepiquat Chloride	-	-	-	72700.0000	-	72700.0000	-	-	-	7.27E+04nc
Mercaptobenzothiazole, 2-	290000.0000	41900.0000	36700.0000	97000.0000	13200.0000	11600.0000	-	-	-	1.16E+04nc
Mercuric Chloride	-	-	-	4850.0000	485.0000	441.0000	-	-	-	4.41E+02nc
Mercury (elemental)	-	-	-	-	-	-	-	-	-	
Merphos	-	-	-	727.0000	-	727.0000	-	-	-	7.27E+02nc
Merphos Oxide	-	-	-	7270.0000	20.6000	20.5000	-	-	-	2.05E+01nc
Metalaxyl	-	-	-	145000.0000	132000.0000	69200.0000	-	-	-	6.92E+04nc
Methacrylonitrile	-	-	-	121000.0000	83200.0000	49300.0000	-	-	-	4.93E+04nc
Methamidophos	-	-	-	121.0000	1760.0000	113.0000	-	-	-	1.13E+02nc
Methanol	-	-	-	1210000.0000	5030000.0000	977000.0000	-	-	-	9.77E+06nc
Methidathion	-	-	-	3640.0000	1810.0000	1210.0000	-	-	-	1.21E+03nc
Methomyl	-	-	-	60600.0000	126000.0000	40900.0000	-	-	-	4.09E+04nc
Methoxy-5-nitroaniline, 2-	65200.0000	40200.0000	24900.0000	-	-	-	-	-	-	2.49E+04ca
Methoxychlor	-	-	-	12100.0000	122.0000	120.0000	-	-	-	1.20E+02nc
Methoxyethanol Acetate, 2-	-	-	-	72700.0000	212000.0000	54100.0000	-	-	-	5.41E+04nc
Methoxyethanol, 2-	-	-	-	48500.0000	338000.0000	42400.0000	-	-	-	4.24E+04nc
Methyl Acetate	-	-	-	2420000.0000	3860000.0000	1490000.0000	-	-	-	1.49E+06nc
Methyl Acrylate	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (2-Butanone)	-	-	-	4850000.0000	6370000.0000	2750000.0000	-	-	-	2.75E+06nc
Methyl Hydrazine	-	-	-	2420.0000	18300.0000	2140.0000	-	-	-	2.14E+03nc
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	-	-	-	1940000.0000	735000.0000	533000.0000	-	-	-	5.33E+05nc

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Methyl Isocyanate	-	-	-	-	-	-	-	-	-	
Methyl Mercury	-	-	-	3640000.0000	5200000.0000	2140000.0000	-	-	-	2.14E+06nc
Methyl Methacrylate	-	-	-	194000.0000	66100.0000	49300.0000	-	-	-	4.93E+04nc
Methyl Parathion	-	-	-	1700.0000	238.0000	209.0000	-	-	-	2.09E+02nc
Methyl Phosphonic Acid	-	-	-	145000.0000	1790000.0000	135000.0000	-	-	-	1.35E+05nc
Methyl Styrene (Mixed Isomers)	-	-	-	14500.0000	89.3000	88.8000	-	-	-	8.88E+01nc
Methyl methanesulfonate	32300.0000	292000.0000	29000.0000	-	-	-	-	-	-	2.90E+04ca
Methyl tert-Butyl Ether (MTBE)	#####	#####	680000.0000	727000.0000	425000.0000	268000.0000	-	-	-	2.68E+05nc
Methyl-1,4-benzenediamine dihydrochloride, 2-	-	-	-	7270.0000	1170000.0000	7230.0000	-	-	-	7.23E+03nc
Methyl-2-Pentanol, 4-	-	-	-	-	-	-	-	-	-	
Methyl-5-Nitroaniline, 2-	355000.0000	103000.0000	79800.0000	48500.0000	13200.0000	10400.0000	-	-	-	1.04E+04nc
Methyl-N-nitro-N-nitrosoguanidine, N-	385.0000	7560.0000	366.0000	-	-	-	-	-	-	3.66E+02ca
Methylaniline Hydrochloride, 2-	24600.0000	#####	24300.0000	-	-	-	-	-	-	2.43E+04ca
Methylarsonic acid	-	-	-	242000.0000	6270000.0000	233000.0000	-	-	-	2.33E+05nc
Methylbenzene,1-4-diamine monohydrochloride, 2-	-	-	-	4850.0000	-	4850.0000	-	-	-	4.85E+03nc
Methylbenzene-1,4-diamine sulfate, 2-	31900.0000	-	31900.0000	7270.0000	-	7270.0000	-	-	-	7.27E+03nc
Methylcholanthrene, 3-	50.5000	-	50.5000	-	-	-	-	-	-	5.05E+01ca
Methylcyclopentane	-	-	-	970000.0000	15800.0000	15500.0000	-	-	-	1.55E+04nc
Methylene Chloride	555000.0000	199000.0000	147000.0000	145000.0000	51200.0000	37900.0000	-	-	-	3.79E+04nc
Methylene-bis(2-chloroaniline), 4,4'-	11100.0000	363.0000	352.0000	4850.0000	156.0000	151.0000	-	-	-	1.51E+02nc
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	69400.0000	971.0000	957.0000	-	-	-	-	-	-	9.57E+02ca
Methylenebisbenzenamine, 4,4'-	2000.0000	1310.0000	791.0000	194000.0000	120000.0000	74100.0000	-	-	-	7.91E+02ca*
Methylenediphenyl Diisocyanate	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	110000.0000	1550.0000	1530.0000	170000.0000	2250.0000	2220.0000	-	-	-	1.53E+03ca**
Methylnaphthalene, 2-	-	-	-	9700.0000	130.0000	129.0000	-	-	-	1.29E+02nc

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Methylstyrene, Alpha-	-	-	-	1700000.0000	32100.0000	31500.0000	-	-	-	3.15E+04nc
Metolachlor	-	-	-	364000.0000	54900.0000	47700.0000	-	-	-	4.77E+04nc
Metribuzin	-	-	-	60600.0000	36800.0000	22900.0000	-	-	-	2.29E+04nc
Metsulfuron-methyl	-	-	-	606000.0000	502000.0000	275000.0000	-	-	-	2.75E+05nc
Mineral oils	-	-	-	72700000.0000	-	72700000.0000	-	-	-	7.27E+07nc
Mirex	177.0000	-	177.0000	485.0000	-	485.0000	-	-	-	1.77E+02ca**
Molinate	-	-	-	4850.0000	236.0000	225.0000	-	-	-	2.25E+02nc
Molybdenum	-	-	-	12100.0000	17300.0000	7130.0000	-	-	-	7.13E+03nc
Monoaluminum phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Monoammonium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Monobutyltin Compounds	-	-	-	-	-	-	-	-	-	-
Monocalcium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Monochloramine	-	-	-	242000.0000	346000.0000	143000.0000	-	-	-	1.43E+05nc
Monomagnesium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Monomethylaniline	-	-	-	48500.0000	11600.0000	9390.0000	-	-	-	9.39E+03nc
Monopotassium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Monosodium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Myclobutanil	-	-	-	60600.0000	9750.0000	8400.0000	-	-	-	8.40E+03nc
N,N'-Diphenyl-1,4-benzenediamine	-	-	-	727.0000	18.4000	17.9000	-	-	-	1.79E+01nc
Naled	-	-	-	4850.0000	14100.0000	3610.0000	-	-	-	3.61E+03nc
Naphtha, High Flash Aromatic (HFAN)	-	-	-	727000.0000	-	727000.0000	-	-	-	7.27E+05nc
Naphthalene	26600.0000	748.0000	727.0000	1450000.0000	38400.0000	37500.0000	-	-	-	7.27E+02ca*
Naphthylamine, 2-	1770.0000	255.0000	223.0000	-	-	-	-	-	-	2.23E+02ca
Napropamide	-	-	-	291000.0000	22300.0000	20700.0000	-	-	-	2.07E+04nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Neodymium Chloride (Stable, Nonradioactive)	-	-	-	1940000.0000	2770000.0000	1140000.0000	-	-	-	1.14E+06nc
Nickel Acetate	3510.0000	181000.0000	3440.0000	26700.0000	1300000.0000	26100.0000	-	-	-	3.44E+03ca**
Nickel Carbonate	3510.0000	325000.0000	3470.0000	26700.0000	2320000.0000	26400.0000	-	-	-	3.47E+03ca**
Nickel Carbonyl	3510.0000	-	3510.0000	26700.0000	-	26700.0000	-	-	-	3.51E+03ca**
Nickel Hydroxide	3510.0000	213.0000	201.0000	26700.0000	1520.0000	1440.0000	-	-	-	2.01E+02ca**
Nickel Oxide	3510.0000	213.0000	201.0000	26700.0000	1520.0000	1440.0000	-	-	-	2.01E+02ca**
Nickel Refinery Dust	3510.0000	1070.0000	818.0000	26700.0000	7620.0000	5930.0000	-	-	-	8.18E+02ca**
Nickel Soluble Salts	-	-	-	48500.0000	13900.0000	10800.0000	-	-	-	1.08E+04nc
Nickel Sub sulfide	1880.0000	571.0000	438.0000	26700.0000	7620.0000	5930.0000	-	-	-	4.38E+02ca*
Nickelocene	3510.0000	-	3510.0000	26700.0000	-	26700.0000	-	-	-	3.51E+03ca**
Nitrate (measured as nitrogen)	-	-	-	9700000.0000	13900000.0000	5710000.0000	-	-	-	5.71E+06nc
Nitrite (measured as nitrogen)	-	-	-	242000.0000	346000.0000	143000.0000	-	-	-	1.43E+05nc
Nitroaniline, 2-	-	-	-	242000.0000	59800.0000	48000.0000	-	-	-	4.80E+04nc
Nitroaniline, 3-	-	-	-	2420.0000	1240.0000	820.0000	-	-	-	8.20E+02nc
Nitroaniline, 4-	160000.0000	84000.0000	55100.0000	24200.0000	12000.0000	8030.0000	-	-	-	8.03E+03nc
Nitrobenzene	-	-	-	12100.0000	2580.0000	2130.0000	-	-	-	2.13E+03nc
Nitrocellulose	-	-	-	7270000000.0000	-	7270000000.0000	-	-	-	7.27E+09nc
Nitrofurantoin	-	-	-	1700000.0000	33100000.0000	1610000.0000	-	-	-	1.61E+06nc
Nitrofurazone	2460.0000	12900.0000	2060.0000	-	-	-	-	-	-	2.06E+03ca
Nitroglycerin	188000.0000	148000.0000	82800.0000	242.0000	180.0000	103.0000	-	-	-	1.03E+02nc
Nitroguanidine	-	-	-	242000.0000	2750000.0000	223000.0000	-	-	-	2.23E+05nc
Nitromethane	-	-	-	-	-	-	-	-	-	
Nitrophenol, 2-	-	-	-	-	-	-	-	-	-	
Nitropropane, 2-	-	-	-	2420.0000	1450.0000	907.0000	-	-	-	9.07E+02nc
Nitropyrene, 4-	2660.0000	21.8000	21.6000	-	-	-	-	-	-	2.16E+01ca
Nitroso-N-ethylurea, N-	41.1000	98.8000	29.0000	-	-	-	-	-	-	2.90E+01ca
Nitroso-N-methylurea, N-	9.2600	28.5000	6.9900	-	-	-	-	-	-	6.99E+00ca

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LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Nitroso-di-N-butylamine, N-	591.0000	57.8000	52.7000	-	-	-	-	-	-	5.27E+01ca
Nitroso-di-N-propylamine, N-	456.0000	233.0000	154.0000	-	-	-	-	-	-	1.54E+02ca
Nitrosodiethanolamine, N-	1140.0000	34200.0000	1100.0000	-	-	-	-	-	-	1.10E+03ca
Nitrosodiethylamine, N-	7.4100	10.4000	4.3200	-	-	-	-	-	-	4.32E+00ca
Nitrosodimethylamine, N-	21.8000	111.0000	18.2000	19.4000	97.2000	16.2000	-	-	-	1.62E+01nc
Nitrosodiphenylamine, N-	652000.0000	41200.0000	38700.0000	-	-	-	-	-	-	3.87E+04ca
Nitrosomethylethylamine, N-	145.0000	356.0000	103.0000	-	-	-	-	-	-	1.03E+02ca
Nitrosomorpholine [N-]	477.0000	3290.0000	416.0000	-	-	-	-	-	-	4.16E+02ca
Nitrosopiperidine [N-]	340.0000	676.0000	226.0000	-	-	-	-	-	-	2.26E+02ca
Nitrosopyrrolidine, N-	1520.0000	6040.0000	1220.0000	-	-	-	-	-	-	1.22E+03ca
Nitrotoluene, m-	-	-	-	2420.0000	240.0000	219.0000	-	-	-	2.19E+02nc
Nitrotoluene, o-	14500.0000	1910.0000	1690.0000	24200.0000	3010.0000	2670.0000	-	-	-	1.69E+03ca**
Nitrotoluene, p-	200000.0000	23700.0000	21200.0000	9700.0000	1080.0000	974.0000	-	-	-	9.74E+02nc
Nonane, n-	-	-	-	7270.0000	-	7270.0000	-	-	-	7.27E+03nc
Norflurazon	-	-	-	36400.0000	15600.0000	10900.0000	-	-	-	1.09E+04nc
OCDD	81.9000	-	81.9000	5.6600	-	5.6600	-	-	-	5.66E+00nc
OCDF	81.9000	-	81.9000	5.6600	-	5.6600	-	-	-	5.66E+00nc
Octabromodiphenyl Ether	-	-	-	7.2700	-	7.2700	-	-	-	7.27E+00nc
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	-	-	-	121000.0000	1310000.0000	111000.0000	-	-	-	1.11E+05nc
Octamethylpyrophosphoramide	-	-	-	4850.0000	294000.0000	4770.0000	-	-	-	4.77E+03nc
Octyl Phthalate, di-N-	-	-	-	242000.0000	-	242000.0000	-	-	-	2.42E+05nc
Oryzalin	410000.0000	30800.0000	28700.0000	339000.0000	24000.0000	22400.0000	-	-	-	2.24E+04nc
Oxadiazon	-	-	-	12100.0000	186.0000	183.0000	-	-	-	1.83E+02nc
Oxamyl	-	-	-	60600.0000	1050000.0000	57300.0000	-	-	-	5.73E+04nc
Oxyfluorfen	43600.0000	879.0000	862.0000	72700.0000	1380.0000	1350.0000	-	-	-	8.62E+02ca**
Pacllobutrazol	-	-	-	31500.0000	3570.0000	3200.0000	-	-	-	3.20E+03nc
Paraquat Dichloride	-	-	-	10900.0000	-	10900.0000	-	-	-	1.09E+04nc
Parathion	-	-	-	21800.0000	923.0000	886.0000	-	-	-	8.86E+02nc
PeCDF, 1,2,3,7,8-	0.8190	-	0.8190	0.0566	-	0.0566	-	-	-	5.66E-02nc
PeCDF, 2,3,4,7,8-	0.0819	-	0.0819	0.0727	-	0.0727	-	-	-	7.27E-02nc

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Pebulate	-	-	-	121000.0000	2570.0000	2520.0000	-	-	-	2.52E+03nc
Pendimethalin	-	-	-	97000.0000	487.0000	485.0000	-	-	-	4.85E+02nc
Pentabromodiphenyl Ether	-	-	-	48500.0000	-	48500.0000	-	-	-	4.85E+04nc
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	-	-	-	242.0000	-	242.0000	-	-	-	2.42E+02nc
Pentachlorobenzene	-	-	-	19400.0000	81.4000	81.1000	-	-	-	8.11E+01nc
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	819.0000	-	819.0000	56.6000	-	56.6000	-	-	-	5.66E+01nc
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	819.0000	-	819.0000	56.6000	-	56.6000	-	-	-	5.66E+01nc
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	819.0000	-	819.0000	56.6000	-	56.6000	-	-	-	5.66E+01nc
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	819.0000	-	819.0000	56.6000	-	56.6000	-	-	-	5.66E+01nc
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	0.2460	-	0.2460	0.0170	-	0.0170	-	-	-	1.70E-02nc
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	0.0246	-	0.0246	0.0017	-	0.0017	-	-	-	1.70E-03nc
Pentachloroethane	35500.0000	2010.0000	1900.0000	-	-	-	-	-	-	1.90E+03ca
Pentachloronitrobenzene	12300.0000	165.0000	163.0000	7270.0000	91.8000	90.7000	-	-	-	9.07E+01nc
Pentachlorophenol	7980.0000	42.5000	42.3000	2420.0000	12.1000	12.1000	-	-	-	1.21E+01nc
Pentaerythritol tetranitrate (PETN)	798000.0000	349000.0000	243000.0000	4850.0000	1990.0000	1410.0000	-	-	-	1.41E+03nc
Pentane, n-	-	-	-	-	-	-	-	-	-	-
Perchlorate and Perchlorate Salts	-	-	-	1700.0000	2420.0000	998.0000	-	-	-	9.98E+02nc
Perfluorobutane sulfonic acid (PFBS)	-	-	-	485000.0000	-	485000.0000	-	-	-	4.85E+05nc
Perfluorobutanesulfonate	-	-	-	485000.0000	-	485000.0000	-	-	-	4.85E+05nc
Perfluorooctane sulfonic acid (PFOS)	-	-	-	48.5000	-	48.5000	-	-	-	4.85E+01nc
Perfluorooctanesulfonate	-	-	-	48.5000	-	48.5000	-	-	-	4.85E+01nc
Perfluorooctanoic acid (PFOA)	45600.0000	-	45600.0000	48.5000	-	48.5000	-	-	-	4.85E+01nc
Permethrin	-	-	-	485000.0000	-	485000.0000	-	-	-	4.85E+05nc
Phenacetin	#####	835000.0000	530000.0000	-	-	-	-	-	-	5.30E+05ca
Phenmedipham	-	-	-	582000.0000	37800.0000	35500.0000	-	-	-	3.55E+04nc
Phenol	-	-	-	1450000.0000	411000.0000	321000.0000	-	-	-	3.21E+05nc
Phenol, 2-(1-methylethoxy)-, methylcarbamate	-	-	-	9700.0000	7280.0000	4160.0000	-	-	-	4.16E+03nc
Phenothiazine	-	-	-	12100.0000	153.0000	152.0000	-	-	-	1.52E+02nc

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LOWER DARBY CREEK AREA**

Site-specific

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Phenyl Isothiocyanate	-	-	-	4850.0000	140.0000	136.0000	-	-	-	1.36E+02nc
Phenylenediamine, m-	-	-	-	145000.0000	733000.0000	121000.0000	-	-	-	1.21E+05nc
Phenylenediamine, o-	26600.0000	68500.0000	19200.0000	9700.0000	23500.0000	6870.0000	-	-	-	6.87E+03nc
Phenylenediamine, p-	-	-	-	24200.0000	117000.0000	20100.0000	-	-	-	2.01E+04nc
Phenylmercuric Acetate	-	-	-	194.0000	1180.0000	167.0000	-	-	-	1.67E+02nc
Phenylphenol, 2-	#####	89300.0000	84700.0000	-	-	-	-	-	-	8.47E+04ca
Phorate	-	-	-	485.0000	25.4000	24.2000	-	-	-	2.42E+01nc
Phosgene	-	-	-	-	-	-	-	-	-	-
Phosmet	-	-	-	48500.0000	10900.0000	8910.0000	-	-	-	8.91E+03nc
Phosphine	-	-	-	727.0000	1040.0000	428.0000	-	-	-	4.28E+02nc
Phosphoric Acid	-	-	-	11800000.0000	16800000.0000	6930000.0000	-	-	-	6.93E+07nc
Phosphorus, White	-	-	-	485.0000	693.0000	285.0000	-	-	-	2.85E+02nc
Phthalic Acid, P-	-	-	-	2420000.0000	616000.0000	491000.0000	-	-	-	4.91E+05nc
Phthalic Anhydride	-	-	-	4850000.0000	1930000.0000	1380000.0000	-	-	-	1.38E+06nc
Picloram	-	-	-	170000.0000	89800.0000	58700.0000	-	-	-	5.87E+04nc
Picramic Acid (2-Amino-4,6-dinitrophenol)	-	-	-	242.0000	415.0000	153.0000	-	-	-	1.53E+02nc
Picric Acid (2,4,6-Trinitrophenol)	-	-	-	24200.0000	28400.0000	13100.0000	-	-	-	1.31E+04nc
Pirimiphos, Methyl	-	-	-	170.0000	4.4900	4.3700	-	-	-	4.37E+00nc
Polybrominated Biphenyls	106.0000	-	106.0000	170.0000	-	170.0000	-	-	-	1.06E+02ca**
Polychlorinated Biphenyls (low risk)	7980.0000	-	7980.0000	-	-	-	-	-	-	7.98E+03ca
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	-	-	-	-	-	-	-	-	-	-
Polyphosphoric acid	-	-	-	11800000.0000	16800000.0000	6930000.0000	-	-	-	6.93E+07nc
Potassium Cyanide	-	-	-	121000.0000	86600.0000	50500.0000	-	-	-	5.05E+04nc
Potassium Perchlorate	-	-	-	1700.0000	1210.0000	707.0000	-	-	-	7.07E+02nc
Potassium Perfluorobutane Sulfonate	-	-	-	485000.0000	-	485000.0000	-	-	-	4.85E+05nc
Potassium Perfluorooctane Sulfonate	-	-	-	48.5000	-	48.5000	-	-	-	4.85E+01nc

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Potassium Silver Cyanide	-	-	-	485000.0000	13900.0000	13500.0000	-	-	-	1.35E+04nc
Potassium tripolyphosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Praseodymium Chloride (Stable, Nonradioactive)	-	-	-	1940000.0000	2770000.0000	1140000.0000	-	-	-	1.14E+06nc
Prochloraz	21300.0000	1100.0000	1050.0000	21800.0000	1060.0000	1020.0000	-	-	-	1.02E+03nc
Profluralin	-	-	-	14500.0000	68.6000	68.3000	-	-	-	6.83E+01nc
Prometon	-	-	-	36400.0000	3280.0000	3010.0000	-	-	-	3.01E+03nc
Prometryn	-	-	-	97000.0000	4860.0000	4630.0000	-	-	-	4.63E+03nc
Pronamide	-	-	-	182000.0000	11300.0000	10700.0000	-	-	-	1.07E+04nc
Propachlor	-	-	-	315000.0000	87300.0000	68400.0000	-	-	-	6.84E+04nc
Propanil	-	-	-	12100.0000	920.0000	855.0000	-	-	-	8.55E+02nc
Propargite	16600.0000	207.0000	204.0000	97000.0000	1130.0000	1120.0000	-	-	-	2.04E+02ca**
Propargyl Alcohol	-	-	-	4850.0000	14800.0000	3650.0000	-	-	-	3.65E+03nc
Propazine	-	-	-	48500.0000	4930.0000	4480.0000	-	-	-	4.48E+03nc
Propham	-	-	-	48500.0000	5550.0000	4980.0000	-	-	-	4.98E+03nc
Propiconazole	-	-	-	242000.0000	16900.0000	15800.0000	-	-	-	1.58E+04nc
Propionaldehyde	-	-	-	-	-	-	-	-	-	-
Propyl benzene	-	-	-	242000.0000	3500.0000	3450.0000	-	-	-	3.45E+03nc
Propylene	-	-	-	-	-	-	-	-	-	-
Propylene Glycol	-	-	-	48500000.0000	425000000.0000	43500000.0000	-	-	-	4.35E+07nc
Propylene Glycol Dinitrate	-	-	-	-	-	-	-	-	-	-
Propylene Glycol Monomethyl Ether	-	-	-	17000000.0000	89900000.0000	14300000.0000	-	-	-	1.43E+07nc
Propylene Oxide	13300.0000	23500.0000	8500.0000	-	-	-	-	-	-	8.50E+03ca
Pyrene	-	-	-	727000.0000	3130.0000	3120.0000	-	-	-	3.12E+03nc
Pyridine	-	-	-	24200.0000	20000.0000	10900.0000	-	-	-	1.09E+04nc
Quinalphos	-	-	-	1210.0000	21.2000	20.8000	-	-	-	2.08E+01nc
Quinoline	1060.0000	195.0000	165.0000	-	-	-	-	-	-	1.65E+02ca
Quizalofop-ethyl	-	-	-	21800.0000	789.0000	761.0000	-	-	-	7.61E+02nc
Resmethrin	-	-	-	72700.0000	157.0000	157.0000	-	-	-	1.57E+02nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Ronnel	-	-	-	121000.0000	1410.0000	1400.0000	-	-	-	1.40E+03nc
Rotenone	-	-	-	9700.0000	531.0000	503.0000	-	-	-	5.03E+02nc
Rubidium	-	-	-	9700.0000	13900.0000	5710.0000	-	-	-	5.71E+03nc
Rubidium Chloride	-	-	-	12100.0000	17300.0000	7130.0000	-	-	-	7.13E+03nc
Rubidium Hydroxide	-	-	-	9700.0000	13900.0000	5710.0000	-	-	-	5.71E+03nc
Rubidium Iodide	-	-	-	21800.0000	31200.0000	12800.0000	-	-	-	1.28E+04nc
Safrole	5050.0000	466.0000	427.0000	-	-	-	-	-	-	4.27E+02ca
Samarium Chloride (Stable, Nonradioactive)	-	-	-	2180000.0000	3120000.0000	1280000.0000	-	-	-	1.28E+06nc
Samarium Nitrate (Stable, Nonradioactive)	-	-	-	97.0000	139.0000	57.1000	-	-	-	5.71E+01nc
Selenious Acid	-	-	-	12100.0000	17300.0000	7130.0000	-	-	-	7.13E+03nc
Selenium	-	-	-	12100.0000	17300.0000	7130.0000	-	-	-	7.13E+03nc
Selenium Sulfide	-	-	-	12100.0000	17300.0000	7130.0000	-	-	-	7.13E+03nc
Sethoxydim	-	-	-	339000.0000	7870.0000	7690.0000	-	-	-	7.69E+03nc
Silica (crystalline, respirable)	-	-	-	-	-	-	-	-	-	-
Silver	-	-	-	12100.0000	1150.0000	1050.0000	-	-	-	1.05E+03nc
Silver Cyanide	-	-	-	242000.0000	13900.0000	13100.0000	-	-	-	1.31E+04nc
Simazine	26600.0000	7300.0000	5730.0000	12100.0000	3130.0000	2490.0000	-	-	-	2.49E+03nc
Sodium Acifluorfen	-	-	-	31500.0000	434000.0000	29400.0000	-	-	-	2.94E+04nc
Sodium Azide	-	-	-	9700.0000	13900.0000	5710.0000	-	-	-	5.71E+03nc
Sodium Cyanide	-	-	-	121000.0000	173000.0000	71300.0000	-	-	-	7.13E+04nc
Sodium Diethyldithiocarbamate	11800.0000	630000.0000	11600.0000	727000.0000	3650000.0000	713000.0000	-	-	-	1.16E+04ca*
Sodium Fluoride	-	-	-	121000.0000	173000.0000	71300.0000	-	-	-	7.13E+04nc
Sodium Fluoroacetate	-	-	-	48.5000	-	48.5000	-	-	-	4.85E+01nc
Sodium Metavanadate	-	-	-	24200.0000	34600.0000	14300.0000	-	-	-	1.43E+04nc
Sodium Perchlorate	-	-	-	1700.0000	2420.0000	998.0000	-	-	-	9.98E+02nc
Sodium Tungstate	-	-	-	19400.0000	27700.0000	11400.0000	-	-	-	1.14E+04nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Sodium Tungstate Dihydrate	-	-	-	19400.0000	27700.0000	11400.0000	-	-	-	1.14E+04nc
Sodium acid pyrophosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Sodium aluminum phosphate (acidic)	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Sodium aluminum phosphate (anhydrous)	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Sodium aluminum phosphate (tetrahydrate)	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Sodium hexametaphosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Sodium polyphosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Sodium trimetaphosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Sodium tripolyphosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Stirofos (Tetrachlorovinphos)	133000.0000	15400.0000	13800.0000	72700.0000	7930.0000	7150.0000	-	-	-	7.15E+03nc
Strontium, Stable	-	-	-	4850000.0000	6930000.0000	2850000.0000	-	-	-	2.85E+06nc
Strychnine	-	-	-	7270.0000	6730.0000	3500.0000	-	-	-	3.50E+03nc
Styrene	-	-	-	485000.0000	16900.0000	16300.0000	-	-	-	1.63E+04nc
Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)	-	-	-	19400.0000	1310.0000	1220.0000	-	-	-	1.22E+03nc
Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)	-	-	-	19400.0000	1310.0000	1220.0000	-	-	-	1.22E+03nc
Sulfolane	-	-	-	24200.0000	272000.0000	22300.0000	-	-	-	2.23E+04nc
Sulfonylbis(4-chlorobenzene), 1,1'-	-	-	-	9700.0000	362.0000	349.0000	-	-	-	3.49E+02nc
Sulfur Mustard	-	-	-	170.0000	38.8000	31.6000	-	-	-	3.16E+01nc
Sulfur Trioxide	-	-	-	-	-	-	-	-	-	
Sulfuric Acid	-	-	-	-	-	-	-	-	-	
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	128000.0000	1900.0000	1880.0000	242000.0000	3400.0000	3350.0000	-	-	-	1.88E+03ca**

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
TCDD, 2,3,7,8-	0.0246	-	0.0246	0.0485	-	0.0485	-	-	-	2.46E-02ca**
TCDF, 2,3,7,8-	0.2460	-	0.2460	0.0170	-	0.0170	-	-	-	1.70E-02nc
TCMTB	-	-	-	727000.0000	49500.0000	46300.0000	-	-	-	4.63E+04nc
Tebuthiuron	-	-	-	170000.0000	97800.0000	62000.0000	-	-	-	6.20E+04nc
Temephos	-	-	-	485000.0000	-	485000.0000	-	-	-	4.85E+05nc
Terbacil	-	-	-	31500.0000	14400.0000	9910.0000	-	-	-	9.91E+03nc
Terbufos	-	-	-	60.6000	0.9340	0.9200	-	-	-	9.20E-01nc
Terbutryn	-	-	-	2420.0000	85.5000	82.5000	-	-	-	8.25E+01nc
Tert-Butyl Acetate	639000.0000	154000.0000	124000.0000	-	-	-	-	-	-	1.24E+05ca
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	-	-	-	242.0000	-	242.0000	-	-	-	2.42E+02nc
Tetrachlorobenzene, 1,2,4,5-	-	-	-	72.7000	0.4930	0.4890	-	-	-	4.89E-01nc
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	246.0000	-	246.0000	17.0000	-	17.0000	-	-	-	1.70E+01nc
Tetrachlorobiphenyl, 3,4,4',5'- (PCB 81)	81.9000	-	81.9000	5.6600	-	5.6600	-	-	-	5.66E+00nc
Tetrachloroethane, 1,1,1,2-	123000.0000	8260.0000	7740.0000	218000.0000	13800.0000	13000.0000	-	-	-	7.74E+03ca**
Tetrachloroethane, 1,1,2,2-	16000.0000	2430.0000	2110.0000	121000.0000	17300.0000	15200.0000	-	-	-	2.11E+03ca**
Tetrachloroethylene	#####	50200.0000	48600.0000	19400.0000	603.0000	585.0000	-	-	-	5.85E+02nc
Tetrachlorophenol, 2,3,4,6-	-	-	-	727000.0000	8140.0000	8050.0000	-	-	-	8.05E+03nc
Tetrachlorotoluene, p- alpha, alpha, alpha-	200.0000	2.0400	2.0200	1450.0000	14.0000	13.9000	-	-	-	2.02E+00ca**
Tetraethyl Dithiopyrophosphate	-	-	-	12100.0000	493.0000	474.0000	-	-	-	4.74E+02nc
Tetraethyl Lead	-	-	-	0.2420	0.0078	0.0076	-	-	-	7.55E-03nc
Tetrafluoroethane, 1,1,1,2-	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran	-	-	-	2180000.0000	2210000.0000	1100000.0000	-	-	-	1.10E+06nc
Tetramethylcyclohexane	-	-	-	7270000.0000	-	7270000.0000	-	-	-	7.27E+06nc
Tetrapotassium phosphate	-	-	-	11800000.0000	16800000.0000	6930000.0000	-	-	-	6.93E+07nc
Tetrasodium pyrophosphate	-	-	-	11800000.0000	16800000.0000	6930000.0000	-	-	-	6.93E+07nc
Tetryl (Trinitrophenylmethylnitramine)	-	-	-	48500.0000	51200.0000	24900.0000	-	-	-	2.49E+04nc
Thallic Oxide	-	-	-	48.5000	69.3000	28.5000	-	-	-	2.85E+01nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

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Thallium (I) Nitrate	-	-	-	121.0000	173.0000	71.3000	-	-	-	7.13E+01nc
Thallium (Soluble Salts)	-	-	-	97.0000	139.0000	57.1000	-	-	-	5.71E+01nc
Thallium Acetate	-	-	-	121.0000	1770.0000	113.0000	-	-	-	1.13E+02nc
Thallium Carbonate	-	-	-	121.0000	176000.0000	121.0000	-	-	-	1.21E+02nc
Thallium Chloride	-	-	-	121.0000	173.0000	71.3000	-	-	-	7.13E+01nc
Thallium Selenite	-	-	-	24.2000	34.6000	14.3000	-	-	-	1.43E+01nc
Thallium Sulfate	-	-	-	121.0000	173.0000	71.3000	-	-	-	7.13E+01nc
Thifensulfuron-methyl	-	-	-	104000.0000	240000.0000	72700.0000	-	-	-	7.27E+04nc
Thiobencarb	-	-	-	24200.0000	1600.0000	1500.0000	-	-	-	1.50E+03nc
Thiocyanates	-	-	-	1450.0000	2080.0000	856.0000	-	-	-	8.56E+02nc
Thiocyanic Acid	-	-	-	1450.0000	2080.0000	856.0000	-	-	-	8.56E+02nc
Thiodiglycol	-	-	-	1700000.0000	15700000.0000	1530000.0000	-	-	-	1.53E+06nc
Thiofanox	-	-	-	727.0000	90.5000	80.5000	-	-	-	8.05E+01nc
Thiophanate, Methyl	275000.0000	641000.0000	193000.0000	65500.0000	143000.0000	44900.0000	-	-	-	4.49E+04nc
Thiram	-	-	-	14500.0000	9940.0000	5910.0000	-	-	-	5.91E+03nc
Tin	-	-	-	727000.0000	1040000.0000	428000.0000	-	-	-	4.28E+05nc
Titanium Tetrachloride	-	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	1940000.0000	81800.0000	78500.0000	-	-	-	7.85E+04nc
Toluene-2,4-diisocyanate	81900.0000	179.0000	178.0000	-	-	-	-	-	-	1.78E+02ca
Toluene-2,5-diamine	17700.0000	52500.0000	13300.0000	4850.0000	13500.0000	3570.0000	-	-	-	3.57E+03nc
Toluene-2,6-diisocyanate	81900.0000	1740.0000	1700.0000	-	-	-	-	-	-	1.70E+03ca
Toluic Acid, p-	-	-	-	121000.0000	15600.0000	13800.0000	-	-	-	1.38E+04nc
Toluidine, o- (Methylaniline, 2-)	200000.0000	85300.0000	59800.0000	48500.0000	19500.0000	13900.0000	-	-	-	1.39E+04nc
Toluidine, p-	106000.0000	41000.0000	29600.0000	9700.0000	3510.0000	2580.0000	-	-	-	2.58E+03nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

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Total Petroleum Hydrocarbons (Aliphatic High)	-	-	-	72700000.0000	-	72700000.0000	-	-	-	7.27E+07nc
Total Petroleum Hydrocarbons (Aliphatic Low)	-	-	-	727000.0000	6180.0000	6130.0000	-	-	-	6.13E+03nc
Total Petroleum Hydrocarbons (Aliphatic Medium)	-	-	-	242000.0000	-	242000.0000	-	-	-	2.42E+05nc
Total Petroleum Hydrocarbons (Aromatic High)	-	-	-	970000.0000	-	970000.0000	-	-	-	9.70E+05nc
Total Petroleum Hydrocarbons (Aromatic Low)	-	-	-	24200.0000	2110.0000	1940.0000	-	-	-	1.94E+03nc
Total Petroleum Hydrocarbons (Aromatic Medium)	-	-	-	9700.0000	174.0000	171.0000	-	-	-	1.71E+02nc
Toxaphene	2900.0000	-	2900.0000	727.0000	-	727.0000	-	-	-	7.27E+02nc
Toxaphene, Weathered	-	-	-	72.7000	-	72.7000	-	-	-	7.27E+01nc
Tralomethrin	-	-	-	18200.0000	-	18200.0000	-	-	-	1.82E+04nc
Tri-n-butyltin	-	-	-	727.0000	20.4000	19.9000	-	-	-	1.99E+01nc
Triacetin	-	-	-	194000000.0000	1110000000.0000	165000000.0000	-	-	-	1.65E+08nc
Triadimefon	-	-	-	82400.0000	16200.0000	13500.0000	-	-	-	1.35E+04nc
Triallate	44500.0000	674.0000	664.0000	31500.0000	449.0000	442.0000	-	-	-	4.42E+02nc
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Triasulfuron	-	-	-	24200.0000	124000.0000	20300.0000	-	-	-	2.03E+04nc
Tribenuron-methyl	-	-	-	19400.0000	10300.0000	6740.0000	-	-	-	6.74E+03nc
Tribromobenzene, 1,2,4-	-	-	-	121000.0000	1670.0000	1650.0000	-	-	-	1.65E+03nc
Tribromophenol, 2,4,6-	-	-	-	218000.0000	7570.0000	7320.0000	-	-	-	7.32E+03nc
Tributyl Phosphate	355000.0000	10500.0000	10200.0000	72700.0000	2030.0000	1970.0000	-	-	-	1.97E+03nc
Tributyltin Compounds	-	-	-	727.0000	-	727.0000	-	-	-	7.27E+02nc
Tributyltin Oxide	-	-	-	727.0000	197.0000	155.0000	-	-	-	1.55E+02nc
Tricalcium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Trichloro-1,2,2-trifluoroethane, 1,1,2-	-	-	-	72700000.0000	3810000.0000	3620000.0000	-	-	-	3.62E+06nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

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Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Trichloro-2'-hydroxydiphenylether	-	-	-	9700000.0000	98200.0000	97200.0000	-	-	-	9.72E+04nc
Trichloroacetic Acid	45600.0000	33400.0000	19300.0000	48500.0000	33400.0000	19800.0000	-	-	-	1.93E+04ca**
Trichloroaniline HCl, 2,4,6-	110000.0000	#####	106000.0000	-	-	-	-	-	-	1.06E+05ca
Trichloroaniline, 2,4,6-	456000.0000	15700.0000	15200.0000	727.0000	23.6000	22.9000	-	-	-	2.29E+01nc
Trichlorobenzene, 1,2,3-	-	-	-	19400.0000	257.0000	254.0000	-	-	-	2.54E+02nc
Trichlorobenzene, 1,2,4-	110000.0000	1620.0000	1600.0000	218000.0000	3020.0000	2980.0000	-	-	-	1.60E+03ca**
Trichloroethane, 1,1,1-	-	-	-	17000000.0000	1530000.0000	1400000.0000	-	-	-	1.40E+06nc
Trichloroethane, 1,1,2-	56000.0000	13200.0000	10700.0000	9700.0000	2150.0000	1760.0000	-	-	-	1.76E+03nc
Trichloroethylene	50100.0000	5150.0000	4670.0000	1210.0000	119.0000	109.0000	-	-	-	1.09E+02nc
Trichlorofluoromethane	-	-	-	727000.0000	64300.0000	59100.0000	-	-	-	5.91E+04nc
Trichlorophenol, 2,4,5-	-	-	-	727000.0000	17600.0000	17100.0000	-	-	-	1.71E+04nc
Trichlorophenol, 2,4,6-	290000.0000	7790.0000	7590.0000	2420.0000	61.2000	59.7000	-	-	-	5.97E+01nc
Trichlorophenoxyacetic Acid, 2,4,5-	-	-	-	242000.0000	18100.0000	16800.0000	-	-	-	1.68E+04nc
Trichlorophenoxypropionic acid, -2,4,5	-	-	-	19400.0000	751.0000	723.0000	-	-	-	7.23E+02nc
Trichloropropane, 1,1,2-	-	-	-	24200.0000	2720.0000	2450.0000	-	-	-	2.45E+03nc
Trichloropropane, 1,2,3-	37.0000	5.3900	4.7000	145000.0000	20800.0000	18200.0000	-	-	-	4.70E+00ca
Trichloropropene, 1,2,3-	-	-	-	72700.0000	4740.0000	4450.0000	-	-	-	4.45E+03nc
Tricresyl Phosphate (TCP)	-	-	-	97000.0000	1080.0000	1060.0000	-	-	-	1.06E+03nc
Tridiphane	-	-	-	7270.0000	53.3000	52.9000	-	-	-	5.29E+01nc
Triethylamine	-	-	-	-	-	-	-	-	-	-
Triethylene Glycol	-	-	-	4850000.0000	32800000.0000	4780000.0000	-	-	-	4.78E+06nc
Trifluoroethane, 1,1,1-	-	-	-	-	-	-	-	-	-	-
Trifluralin	415000.0000	2780.0000	2760.0000	18200.0000	115.0000	114.0000	-	-	-	1.14E+02nc

**ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA**

Site-specific

Recreator Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)	Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
Trimagnesium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Trimethyl Phosphate	160000.0000	#####	148000.0000	24200.0000	277000.0000	22300.0000	-	-	-	2.23E+04nc
Trimethylbenzene, 1,2,3-	-	-	-	97000.0000	1460.0000	1440.0000	-	-	-	1.44E+03nc
Trimethylbenzene, 1,2,4-	-	-	-	97000.0000	1520.0000	1490.0000	-	-	-	1.49E+03nc
Trimethylbenzene, 1,3,5-	-	-	-	97000.0000	2020.0000	1980.0000	-	-	-	1.98E+03nc
Trimethylpentene, 2,4,4-	-	-	-	242000.0000	1070.0000	1070.0000	-	-	-	1.07E+03nc
Trinitrobenzene, 1,3,5-	-	-	-	1210.0000	1570.0000	684.0000	-	-	-	6.84E+02nc
Trinitrotoluene, 2,4,6-	106000.0000	86600.0000	47800.0000	1210.0000	928.0000	526.0000	-	-	-	5.26E+02nc
Triphenylphosphine Oxide	-	-	-	48500.0000	7860.0000	6760.0000	-	-	-	6.76E+03nc
Tripotassium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Tris(1,3-Dichloro-2-propyl) Phosphate	-	-	-	121000.0000	16800.0000	14700.0000	-	-	-	1.47E+04nc
Tris(1-chloro-2-propyl)phosphate	-	-	-	242000.0000	77900.0000	59000.0000	-	-	-	5.90E+04nc
Tris(2,3-dibromopropyl)phosphate	1390.0000	-	1390.0000	-	-	-	-	-	-	1.39E+03ca
Tris(2-chloroethyl)phosphate	160000.0000	242000.0000	96200.0000	48500.0000	69100.0000	28500.0000	-	-	-	2.85E+04nc
Tris(2-ethylhexyl)phosphate	998000.0000	-	998000.0000	242000.0000	-	242000.0000	-	-	-	2.42E+05nc
Trisbutoxyethyl Phosphate	-	-	-	218000.0000	21000.0000	19200.0000	-	-	-	1.92E+04nc
Trisodium phosphate	-	-	-	118000000.0000	168000000.0000	69300000.0000	-	-	-	6.93E+07nc
Tungsten	-	-	-	19400.0000	27700.0000	11400.0000	-	-	-	1.14E+04nc
Uranium	-	-	-	485.0000	693.0000	285.0000	-	-	-	2.85E+02nc
Urethane	1110.0000	3520.0000	845.0000	-	-	-	-	-	-	8.45E+02ca
Vanadium Pentoxide	-	-	-	21800.0000	811.0000	781.0000	-	-	-	7.81E+02nc
Vanadium and Compounds	-	-	-	24200.0000	901.0000	868.0000	-	-	-	8.68E+02nc

ATTACHMENT 2 - RSL CALCULATOR OUTPUT FOR FLOOD WATER RSLs - CHILD
LOWER DARBY CREEK AREA

Site-specific

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Vernolate	-	-	-	24200.0000	506.0000	496.0000	-	-	-	4.96E+02nc
Vinclozolin	-	-	-	2910.0000	365.0000	325.0000	-	-	-	3.25E+02nc
Vinyl Acetate	-	-	-	2420000.0000	1910000.0000	1070000.0000	-	-	-	1.07E+06nc
Vinyl Bromide	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	0.6460	0.1000	0.0869	7270.0000	1130.0000	979.0000	-	-	-	8.69E-02ca
Warfarin	-	-	-	727.0000	175.0000	141.0000	-	-	-	1.41E+02nc
Xylene, m-	-	-	-	485000.0000	12100.0000	11800.0000	-	-	-	1.18E+04nc
Xylene, o-	-	-	-	485000.0000	13500.0000	13200.0000	-	-	-	1.32E+04nc
Xylene, p-	-	-	-	485000.0000	13000.0000	12600.0000	-	-	-	1.26E+04nc
Xylenes	-	-	-	970000.0000	25600.0000	25000.0000	-	-	-	2.50E+04nc
Zinc Cyanide	-	-	-	121000.0000	289000.0000	85400.0000	-	-	-	8.54E+04nc
Zinc Phosphide	-	-	-	7270.0000	17300.0000	5120.0000	-	-	-	5.12E+03nc
Zinc and Compounds	-	-	-	727000.0000	1730000.0000	512000.0000	-	-	-	5.12E+05nc
Zineb	-	-	-	121000.0000	201000.0000	75600.0000	-	-	-	7.56E+04nc
Zirconium	-	-	-	194.0000	277.0000	114.0000	-	-	-	1.14E+02nc

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